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February 18, 2005

Ms. Barbara Seiminsky
CRWQCB – San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, CA 94612

RE: Well Installation and Oxygen Injection Feasibility Test Report
7-Eleven Store #20224
3625 MacDonald Avenue
Richmond, California 94805-2114
SECOR Project No.: 77EL.20224.04.0502

Dear Ms. Seiminsky:

This report was prepared by SECOR International Incorporated (SECOR), on behalf of 7-Eleven Inc., to document the installation of three oxygen injection wells (I-1 through I-3) at 7-Eleven Store # 20244, located at 3625 MacDonald Ave., Richmond, California (Figures 1 and 2).

INTRODUCTION

The site is a 7-Eleven convenience store and former gasoline service station (Figures 1 and 2). Underground storage tanks (USTs) no longer exist at the site. The work was completed following SECOR's September 14, 2004 *Work Plan for Remediation Well Installation and Oxygen Injection Feasibility Test* approved by the California Regional Water Quality Control Board (CRWQCB) in a letter dated October 4, 2004 (Attachment A). The three wells will be used to conduct an oxygen injection test to stimulate bacterial consumption of gasoline range petroleum hydrocarbons beneath the site.

This report summarizes the following:

1. Obtaining permits and preparing a health and safety plan.
2. Clearing boring locations using Underground Service Alert (USA) and a private utility locator.
3. Drilling and sampling three hollow stem auger soil borings.
4. Installing three oxygen injection wells.
5. Testing the feasibility of oxygen injection using the three newly installed wells.

SITE BACKGROUND AND PREVIOUS INVESTIGATIONS

On May 20, 1998, Fluor Daniel GTI supervised the advancement of four Geoprobe borings (GP-1 through GP-4) adjacent to the two 10,000-gallon USTs at the site. The work was required by the Contra Costa Environmental Health Department (CCEHD) prior to a proposed re-lining of the two 10,000-gallon USTs as part of a fuel system upgrade at the site. Soil sample analytical data indicated maximum benzene and total petroleum hydrocarbons as gasoline (TPHg) concentrations of 0.048 milligrams per kilogram (mg/kg) and 1.3 mg/kg, respectively. Methyl-tert-butyl ether (MtBE) was detected at a maximum concentration of 0.62 mg/kg. Grab groundwater samples collected from the bases of the

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borings contained up to 19 micrograms per liter (ug/L) benzene, 11,000 ug/L TPHg, and 4,800 ug/L MtBE. Based on analytical data from the Geoprobe borings, permit approval to upgrade/reline the USTs at the site was denied by the CCEHD, and the tanks were subsequently removed from the site.

On December 16, 1998, two 10,000-gallon USTs and one 6,000-gallon UST (with associated product piping) were removed from the site, and were not replaced. Analytical results of nine soil samples collected indicated that the highest residual benzene (0.0156 mg/kg), TPHg (110 mg/kg), MtBE (1.59 mg/kg) and tert-butyl alcohol (TBA) (0.865 mg/kg) concentrations were detected beneath the eastern end of the tank excavation and beneath the southern end of the fuel dispenser island.

To remove as much hydrocarbon adsorbed to soil as possible, the floor of the UST pit was excavated to a depth of 14.5 feet below ground surface (bgs) and the dispenser island area was excavated to a depth of 5 feet bgs. Maximum concentrations of benzene (0.2 mg/kg) and TPHg (68 mg/kg) were detected beneath the south end of the dispenser island excavation. The highest MtBE concentration (7.3 mg/kg) was detected beneath the southeast corner of the UST excavation. The southern end of the dispenser island excavation was further excavated to 8.5 feet bgs. A soil sample collected from the floor of the excavation contained MtBE (0.28 mg/kg) and did not contain detectable benzene and TPHg concentrations.

The California Regional Water Quality Control Board (CRWQCB) requested further assessment based upon the initial site investigation results. On January 22, 1999, IT Corporation supervised the installation of three 2-inch diameter groundwater monitoring wells (MW-1, MW-2, and MW-3). Benzene, TPHg, and MtBE concentrations in soil ranged up to 9.19 mg/kg, 1,330 mg/kg, and 12 mg/kg, respectively.

In September 1999, six Geoprobe soil borings (SB-1 through SB-6) were drilled at the site to total depths of between 19.5 and 28 feet bgs. TPHg was reported in soil at concentrations up to 20.4 mg/kg. Benzene, MtBE, and other oxygenates were not detected above laboratory reporting limits in the soil samples. Grab groundwater samples collected at the total depth of each boring contained dissolved concentrations ranging up to 1.12 ug/L benzene, 6.93 ug/L TPHg, and 6.79 ug/L MtBE.

On August 24, 2001, IT Corporation supervised the installation of two 2-inch diameter groundwater monitoring wells (MW-4 and MW-5). Benzene and MtBE were not detected in soil at concentrations above laboratory reporting limits. TPHg concentrations in soil reached a maximum of 12 mg/kg in sample MW-5 (10-10.5 bgs).

On September 14, 2004, SECOR submitted a *Work Plan for Remediation Well Installation and Oxygen Injection Feasibility Test* to the RWQCB. The work plan proposed the installation of three oxygen injection wells (I-1 through I-3) and conducting an oxygen injection feasibility test. The work plan was approved by the RWQCB in a letter dated

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October 4, 2004. Oxygen injection wells I-1 through I-3 were installed on December 14-15, 2004.

SOIL BORING, SAMPLING, AND WELL INSTALLATION

Permitting/Site-Specific Health and Safety Plan/Utility Clearance

Prior to installation of the wells, SECOR obtained well installation permits from the Contra Costa County Environmental Health Department (Attachment B).

SECOR prepared a site-specific Health and Safety Plan for well installation and sampling activities at the site as required by the Occupational Health and Safety Administration (OSHA) Standard "Hazardous Waste Operations and Emergency Response" guidelines (29 CFR 1910.120). The document was reviewed and signed by SECOR personnel and subcontractors performing work at the site.

Prior to conducting subsurface work at the site, Underground Service Alert (USA) was contacted to delineate subsurface piping near the site with surface markings. In addition, a private utility locator service was contracted to clear the area surrounding the proposed boring locations.

Soil Borings

On December 14 and 15, 2004, SECOR supervised Gregg Drilling of Martinez, California, in the drilling and installation of three oxygen injection wells at the locations shown on Figure 2. The oxygen injection wells were installed to 27 feet bgs using 8-inch diameter hollow stem augers.

The well construction details are shown in Table 1 and field notes documenting the well installation activities are presented in Attachment C.

Soil Sampling

Soil samples were collected using a split spoon sampler lined with 2-inch diameter by 6-inch-long brass sample tubes. Downhole drilling equipment was steam cleaned before drilling each borehole, and sampling equipment was cleaned between each sampling interval. Each soil sample was screened for hydrocarbon vapors using a portable photoionization detector (PID). Soils encountered during drilling were logged by a SECOR field geologist using the Unified Soil Classification System, under the supervision of a California registered geologist.

Lithology

Soil encountered consisted primarily of clay from 2 to 10 feet bgs, sand, silty sand, and sandy silt from 10 feet bgs and continuing to approximately 27 feet bgs. Each of the three borings encountered groundwater at 12 to 13 feet bgs. These findings are generally consistent with the descriptions provided in previous assessment reports. Copies of the soil boring logs are presented in Attachment D.

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Well Installation

The oxygen injection wells, I-1 through I-3, were drilled to depths of 27 feet bgs and constructed of $\frac{3}{4}$ -inch diameter schedule 40 PVC blank casing and a 2.5-foot long ceramic sparging diffuser tip (Table 1). The diffuser tips were set from 24.5-feet bgs to 27-feet bgs in each injection well. A sand filter pack was placed within the annulus of each well, from the bottom of the boring to approximately one foot above the top of the sparge tip. The annulus of each well was sealed with four feet of bentonite on top of the sand and capped with a Portland cement grout to the surface. The oxygen injection wells were sealed using a locking expansion cap and secured with a water tight 12-inch-diameter traffic rated street box. Copies of the field notes documenting the well installations are provided in Attachment C.

Soil Sample Results

TPHg, BTEX and MtBE were detected in the soil samples collected at 15 feet bgs from borings I-2 and I-3. TPHg and MtBE was also reported in the soil sample collected from I-1 at 15 feet. The highest concentrations were reported in the soil samples collected from soil boring I-3; TPHg, Benzene and MtBE were reported at 1400 mg/kg, 1.8 mg/kg, and 6.6 mg/kg, respectively. I-1 through I-3 contained measurable concentrations of MtBE in all sampled depth ranges. Soil analytical results are summarized in Table 2 and a copy of the analytical report is presented in Attachment E.

Groundwater Sampling and Well Surveying

Results of groundwater and sampling conducted on December 15, 2004 are summarized in Table 3. The top of casing elevations for the oxygen injection wells were not surveyed since they will be used for groundwater remediation purposes and not for groundwater monitoring and sampling.

Oxygen Injection Feasibility Test

On January 11 through 12, 2004, SECOR conducted an oxygen injection feasibility test on oxygen injection wells I-1 through I-3. 150 cubic feet (ft^3) of oxygen was injected into each of the wells over 45 to 60 minutes. During the test, oxygen injection pressures and flow rates into each injection well were recorded and lower explosive limit (LEL) oxygen concentrations were measured in monitoring wells MW-1 through MW-5. A rubber glove was placed over monitoring well MW-3 to qualitatively monitor oxygen transport to the well during oxygen injection into wells I-1, I-2 and I-3. The glove showed some inflation during injection of oxygen into wells I-1, I-2, and I-3, indicating transport of dissolved oxygen to the monitoring well. Dissolved oxygen (DO) concentrations were measured with a DO meter equipped with a down hole probe in adjacent monitoring wells MW-1 through MW-5 before, immediately following, and 24 hours after completion of the injection test.

Prior to the injection test, the DO concentrations in monitoring well MW-3, closest to the oxygen injection wells, was 2.5 milligrams per liter (mg/L). Immediately following the injection test, the DO concentration increased to 7.0 mg/L 24 hours after completion of the

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test, the DO concentration had declined to 2.0 mg/L. However, subsequent oxygen injection completed on January 25 and February 8, 2005 into wells I-1, I-2, and I-3 raised the post injection DO concentration in MW-3 to 17.6 mg/L. Results of the oxygen initial injection feasibility test and two additional periodic oxygen injection events are presented in Tables 4 and 5.

Based on these measurements it was determined that the radius of influence for oxygen injection is at least 17 feet and that oxygen injection is a feasible remedial alternative for this site. Field notes for the oxygen injection feasibility test are in Attachment C.

Waste Disposal

Soil and rinse water generated during drilling was temporarily stored onsite in properly labeled 55-gallon drums. Four discrete soil samples were collected from the drums and transported to Kiff Analytical under chain-of-custody documentation for profiling. The four discrete soil samples were combined in the laboratory into one composite sample SP-1(ABCD), and analyzed for TPHg, BTEX, and MtBE by EPA 8260B and for total lead via EPA method 6010B. The composite sample contained 0.011 mg/kg MtBE and 5.06 mg/kg total lead. BTEX and TPHg were not reported above the laboratory reporting limit. Copies of the analytical data are included in Attachment E.

On January 4, 2005, Belshire Environmental Services Inc. (BES) transported seven drums of non-hazardous soil to the TPS Technologies Soil Recycling facility located Adelanto, California. On January 7, 2005 BES transported one drum of rinsate water to Demenno Kerdoon facility located in Compton, California for disposal. Waste manifests are included as Attachment F.

SUMMARY AND CONCLUSIONS

SECOR oversaw the installation of three oxygen injection wells (I-1 through I-3). Analyses of soil samples collected from the wells indicate the maximum concentrations of TPHg, BTEX and MtBE are present at 15 feet bgs at the site. The initial oxygen injection test began January 11, 2005 and two additional periodic oxygen injection events were completed on January 25 and February 8, 2005. Based on the qualitative measurement of positive pressure measured in well MW-3 during injection in I-1, the oxygen injection radius of influence is estimated to be at least 17 feet. Significant increases in dissolved oxygen were observed in well MW-3 that indicate oxygen injection may be effective stimulating bacterial destruction of TPHg, BTEX, and MtBE dissolved in groundwater.

SECOR recommends conducting periodic oxygen injection into the three new injection wells until the second quarter of 2005. The second quarter groundwater concentration data will be evaluated to determine the remedial effectiveness. If significant increases of dissolved oxygen are maintained and a corresponding decrease in levels of dissolved

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hydrocarbons in groundwater is detected in nearby wells, oxygen injection will be considered an appropriate remedial method for this site.

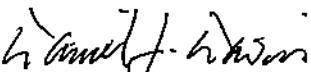
A modified corrective action plan will be submitted with a summary of the feasibility and pilot testing to date, provides locations of additional remedial wells if needed, and presents a site-specific remediation plan based on the results of this feasibility study and historical site data.

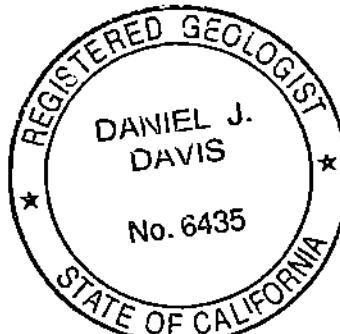
If you have questions concerning the information presented in this report, please call us at 916-861-0400.

Sincerely,
SECOR International Incorporated


Colin Ryan
Staff Geologist


Jeff Auchterlonie
Senior Geologist

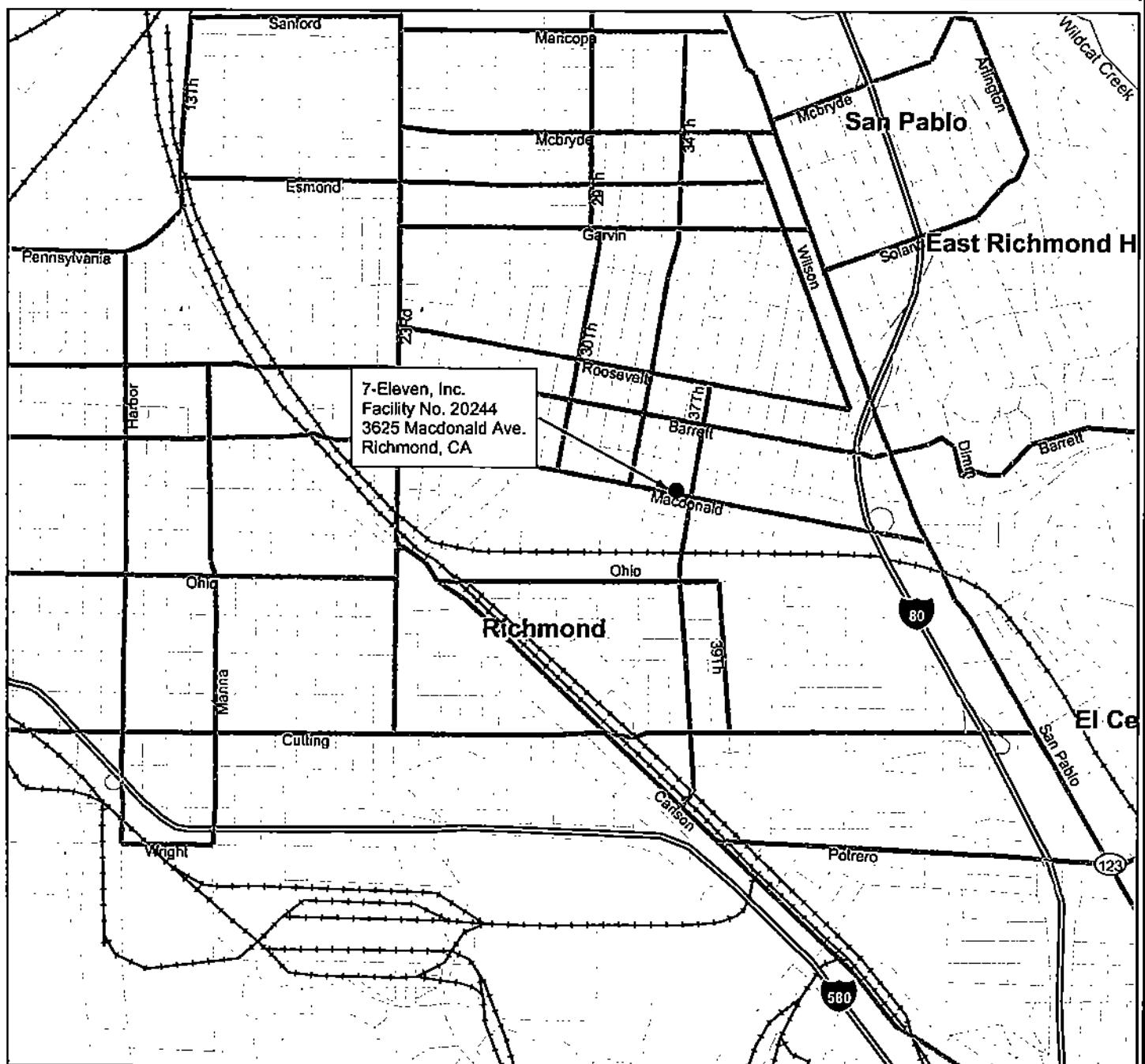

Daniel J. Davis, R.G.
Senior Geologist



Attachments: Figures
Tables
Attachment A – Agency Correspondence
Attachment B – Well Permits
Attachment C – Field Notes
Attachment D – Boring and Well Construction Logs
Attachment E – Certified Laboratory Analytical Reports and Chain of Custody Documentation
Attachment F – Waste Disposal Documentation

cc: File / 7-Eleven, Inc.
Mr. Paul Andrews, Contra Costa County Health Services

FIGURES



Map Features

- Facility 20244

0 2,000 4,000
Feet

1 inch equals 2,000 feet



Basemap Data Source: ESRI® StreetMapUSA 2004



SECOR

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RANCHO CORDOVA, CALIFORNIA
PHONE: (916) 861-0400/861-0430 (FAX)

FOR:
7-ELEVEN, INC.
FACILITY NO. 20244

3625 MACDONALD AVENUE
RICHMOND, CA

JOB NUMBER:
77EL.20244.04

DRAWN BY:
RT

SITE LOCATION MAP

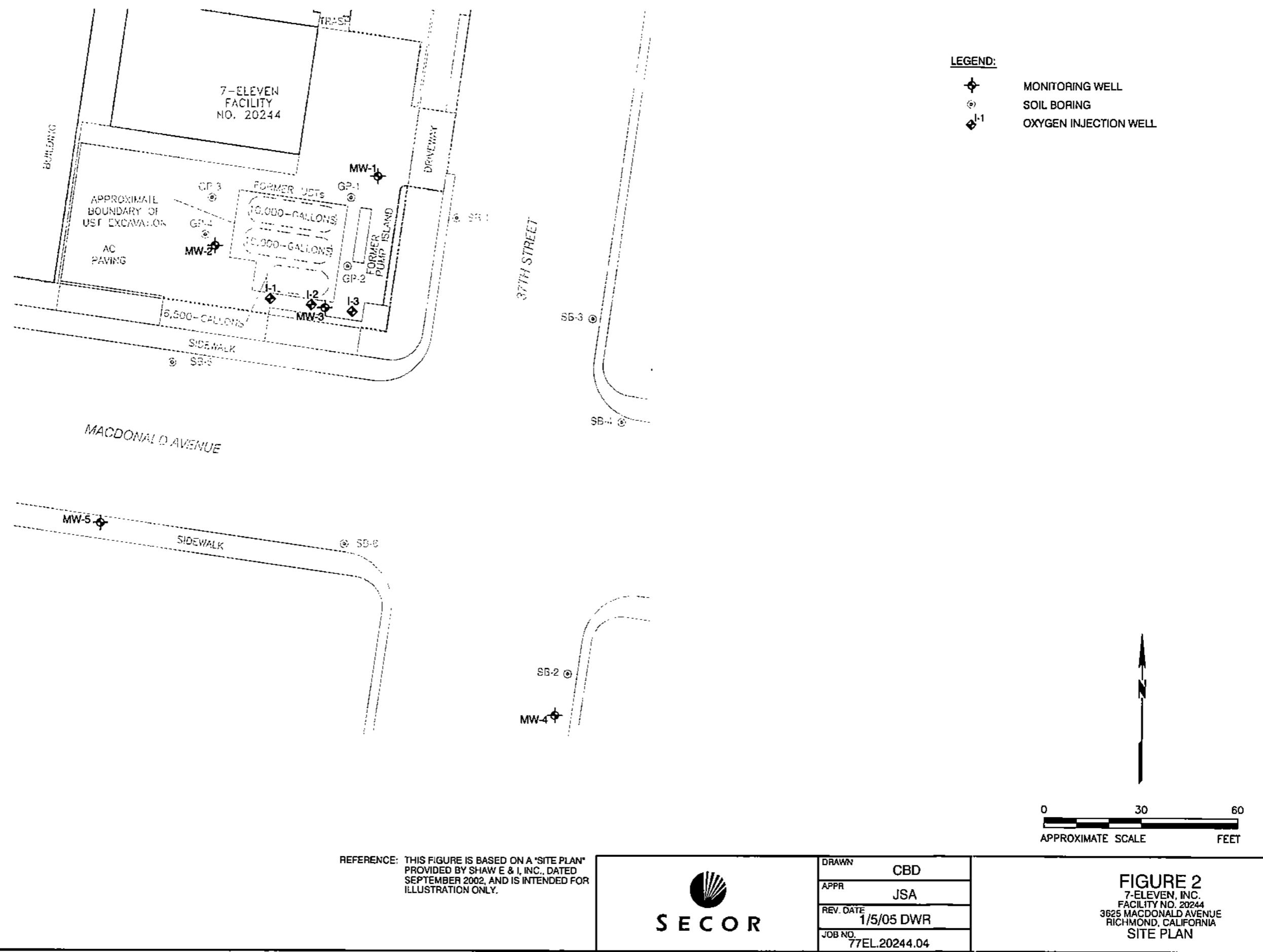
CHECKED BY:
SG

APPROVED BY:
JSA

FIGURE:

1

DATE:
01/19/05



TABLES

Table 1
Soil Boring and Well Construction Details

7-Eleven Site No. 20244
3625 MacDonald Avenue
Richmond, California

Well ID	Drill Date	Well Name	Depth (feet/bgs)	Diameter (inches)	Screen Top (feet/bgs)	Screen Bottom (feet/bgs)	Screen Length (feet)	Comments
Soil Borings								
GP-1	05/20/98	21	1.5	—	—	—	—	Geoprobe boring
GP-2	05/20/98	21	1.5	—	—	—	—	Geoprobe boring
GP-3	05/20/98	16	1.5	—	—	—	—	Geoprobe boring
GP-4	05/20/98	18	1.5	—	—	—	—	Geoprobe boring
SB-1	09/17/99	19.5	1.5	—	—	—	—	Soil boring
SB-2	09/17/99	20	1.5	—	—	—	—	Soil boring
SB-3	09/17/99	28	1.5	—	—	—	—	Soil boring
SB-4	09/17/99	20	1.5	—	—	—	—	Soil boring
SB-5	09/17/99	20	2	—	—	—	—	Soil boring
SB-6	09/17/99	24	2	—	—	—	—	Soil boring
Monitoring Wells								
MW-1	01/22/99	20	2	5	20	15	—	
MW-2	01/22/99	20	2	5	20	15	—	
MW-3	01/22/99	24.5	2	5	20	15	—	
MW-4	08/24/01	24.5	2	14.5	24.5	10	—	
MW-5	08/24/01	24.5	2	14.5	24.5	10	—	
Oxygen Injection Wells								
I-1	12/15/04	27	0.75	24.5	27	2.5	—	Ceramic steel diffusion tip
I-2	12/14/04	27	0.75	24.5	27	2.5	—	Ceramic steel diffusion tip
I-3	12/14/04	27	0.75	24.5	27	2.5	—	Ceramic steel diffusion tip
Explanation								
Wells are of poly-vinyl-chloride (PVC) construction								
bgs = Below ground surface								

Table 2
Soil Analytical Data

7-Eleven Store #20244
3625 MacDonald Avenue
Richmond, CA

Sample Number	Date	Depth (ft/bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Xylenes (mg/kg)	Ethylbenzene (mg/kg)	MIBK (mg/kg)	MTBE (mg/kg)	MTBE (mg/kg)	MTBE (mg/kg)	Notes
Geoprobe Soil Borings											
GP1-15	05/20/98	15	0.0021	0.0043	0.0065	0.0011	0.96	0.2	--	--	--
GP2-15	05/20/98	15	0.048	0.0330	0.032	0.038	1.3	0.62	--	--	--
GP3-15	05/20/98	15	<0.005	<0.005	<0.005	<1.0	0.018	--	--	--	a
GP4-15	04/19/95	5	<0.005	<0.005	<0.0065	<1.0	0.049	--	--	--	a
UST and Dispenser Island Samples											
T-1E	12/16/98	12.5	<0.050	0.324	4.59	5.77	110	4.43	2.22	<5.00	<0.25
T-2E	12/16/98	13.5	0.0156	0.0015	0.0406	0.029	1.20	0.608	0.300	0.201	<0.0050
T-3E	12/16/98	13.0	<0.001	<0.001	0.0071	<0.001	0.528	0.432	0.167	0.229	<0.0050
T-1W	12/16/98	14.0	<0.0010	<0.0010	<0.0010	<0.0010	0.125	0.201	0.142	<0.100	<0.0050
T-2W	12/16/98	13.5	<0.0010	<0.0010	0.0084	0.0088	1.36	0.0415	0.0193	<0.100	<0.0050
T-3W	12/16/98	14.0	<0.0010	<0.0010	<0.0010	<0.0010	<0.100	<0.0010	<0.0050	<0.100	<0.0050
DP-1	12/16/98	4.0	<0.0010	<0.0010	<0.0010	<0.0010	0.211	0.368	0.167	0.115	<0.0050
DP-2	12/16/98	4.0	<0.0010	<0.0010	<0.0010	<0.0010	0.304	0.311	0.291	<0.100	<0.0050
DP-3	12/16/98	4.0	0.0076	<0.0010	0.0239	0.0056	1.06	0.812	1.59	0.865	<0.025
Excavation Soil Samples											
D1-N-5'	12/20/98	5.0	<0.0050	<0.0050	<0.0050	<1.0	0.77	0.960	<0.10	<0.025	<0.025
D1-S-5'	12/20/98	5.0	0.20	0.064	1.4	0.93	68	1	2	<0.50	<0.12
D1-S8.5'	12/20/98	8.5	<0.0050	<0.0050	0.0064	<0.0050	<1.0	0.15	0.28	<0.040	<0.010
TP-NE-14'	12/20/98	14.0	<0.0050	<0.0050	<0.0050	<1.0	0.27	0.28	<0.10	<0.025	<0.025
TP-SE-14'	12/20/98	14.0	<0.050	0.091	1.1	1.4	65	5.6	7.3	<2.0	<0.50
TP-NW-14'	12/20/98	14.0	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.050	<0.0050	<0.0050	<0.0050
TP-SW-14'	12/20/98	14.0	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	<0.050	<0.079	<0.020	<0.0050

Table 2
Soil Analytical Data
7-Eleven Store #20244
3625 MacDonald Avenue
Richmond, CA

Sample Number	Date	Depth (ft/bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Xylenes (mg/kg)	MTBE (mg/kg)	TPH (mg/kg)	MTBE (mg/kg)	TIBA (mg/kg)	MTBE (mg/kg)	TIBA (mg/kg)	MTBE (mg/kg)	TIBA (mg/kg)	Notes	
Groundwater Monitoring Wells															
MW-1	01/22/99	5	<0.001	<0.001	<0.1	<0.005	<0.1	<0.1	<0.005	<0.1	<0.005	<0.005	<0.005	a	
		10	<0.001	<0.001	<0.1	<0.005	<0.1	<0.1	<0.005	<0.1	<0.005	<0.005	<0.005	a	
		15	0.0036	<0.001	0.0134	0.0444	2.5	<0.01	<0.005	<0.1	0.0056	<0.005	<0.005	a	
		20	<0.001	<0.001	0.0076	0.35	<0.01	<0.005	<0.1	<0.005	<0.005	<0.005	<0.005	a	
MW-2	01/22/99	6	<0.001	<0.001	<0.1	<0.005	<0.1	<0.01	<0.005	<0.1	<0.005	<0.005	<0.005	a	
		10	<0.001	<0.001	<0.1	<0.005	<0.1	<0.01	<0.005	<0.1	<0.005	<0.005	<0.005	a	
		15	0.0018	<0.005	0.0054	0.012	0.151	<0.050	<0.005	<0.1	<0.005	<0.005	<0.005	a	
		20	<0.001	<0.001	<0.001	<0.001	<0.1	<0.01	<0.005	<0.1	<0.005	<0.005	<0.005	a	
MW-3	01/22/99	5	0.0014	<0.001	<0.001	<0.001	0.0042	<0.001	0.169	0.0673	0.0627	<0.1	<0.005	<0.005	a
		10	0.0095	<0.001	9.19	39.6	29.8	109	1,330	10.5	12	<0.1	<0.005	<0.005	a
		15			0.0093	0.0018	0.001	0.004	5.3	7.43	10.3	<5	<0.5	<0.5	a
		20			0.0011	0.0029	<0.001	0.0011	0.639	1.17	1.67	<0.5	<0.25	<0.25	a
		24.5											<0.025	<0.025	a
MW-4	08/24/01	5	<0.001	<0.001	0.003	<1	<0.005	<1	<0.005	<0.1	<0.001	<0.001	<0.001	b, c	
		9	<0.001	<0.001	<0.001	<0.003	<1	<0.005	<0.1	<0.001	<0.001	<0.001	<0.001	b	
		14	<0.001	<0.001	<0.001	<0.003	<1	<0.005	<0.1	<0.001	<0.001	<0.001	<0.001	b	
		19	<0.001	<0.001	<0.001	<0.003	<1	<0.005	<0.1	<0.001	<0.001	<0.001	<0.001	b	
		24	<0.001	<0.001	<0.001	<0.003	<1	<0.005	<0.1	<0.001	<0.001	<0.001	<0.001	b	
MW-5	08/24/01	6	<0.001	<0.001	<0.003	<1	<0.005	<0.1	<0.005	<0.1	<0.005	<0.005	<0.005	b	
		10	<0.001	<0.001	<0.001	<0.001	<1	<0.005	<0.1	<0.001	<0.001	<0.001	<0.001	b	
		14	<0.001	<0.001	0.13	0.34	12	<0.005	<0.1	<0.001	<0.001	<0.001	<0.001	b	
		19	<0.001	<0.001	0.0035	0.0057	<1	<0.005	<0.1	<0.001	<0.001	<0.001	<0.001	b	
		24	<0.001	<0.001	<0.001	<0.003	<1	<0.005	<0.1	<0.001	<0.001	<0.001	<0.001	b	

Table 2
Soil Analytical Data
7-Eleven Store #20244
3625 MacDonald Avenue
Richmond, CA

Sample Number	Date	Depth (ft/bgs)	Toluene (mg/kg)	Xylenes (mg/kg)	TPHg (mg/kg)	MTBE (mg/kg)	TMBE (mg/kg)	DIPB (mg/kg)	MTIBA (mg/kg)	MTIBE (mg/kg)	DIPB (mg/kg)	MTIBA (mg/kg)	Notes	
Soil Borings														
SB-1	09/17/99	15	<0.001	<0.001	<0.1	<0.01	<0.01	<0.2	<0.01	<0.01	<0.01	<0.01	a	
		20	<0.001	<0.001	<0.1	<0.01	<0.01	<0.2	<0.01	<0.01	<0.01	<0.01	a	
SB-2	09/17/99	10	<0.001	<0.001	<0.1	<0.01	<0.01	<0.2	<0.01	<0.01	<0.01	<0.01	a	
	09/17/99	15	<0.001	<0.001	<0.1	<0.01	<0.01	<0.2	<0.01	<0.01	<0.01	<0.01	a	
	09/17/99	20	<0.001	<0.001	<0.1	<0.01	<0.01	<0.2	<0.01	<0.01	<0.01	<0.01	a	
SB-3	09/17/99	10	<0.001	<0.001	0.118	<0.01	<0.01	<0.2	<0.01	<0.01	<0.01	<0.01	a	
	09/17/99	15	<0.001	<0.001	<0.1	<0.01	<0.01	<0.2	<0.01	<0.01	<0.01	<0.01	a	
	09/17/99	20	<0.001	<0.001	<0.1	<0.01	<0.01	<0.2	<0.01	<0.01	<0.01	<0.01	a	
	09/17/99	28	<0.001	<0.001	<0.1	<0.01	<0.01	<0.2	<0.01	<0.01	<0.01	<0.01	a	
SB-4	09/17/99	10	<0.05	0.162	0.33	0.324	20.4	<0.5	<0.5	<1	<0.05	<0.05	a	
	09/17/99	15	<0.001	<0.001	<0.001	<0.001	<0.1	<0.01	<0.01	<0.2	<0.01	<0.01	a	
	09/17/99	20	<0.001	<0.001	<0.001	<0.001	<0.1	<0.01	<0.01	<0.2	<0.01	<0.01	a	
SB-5	09/17/99	--	--	--	--	--	--	--	--	--	--	--	a	
SB-6	09/17/99	10	<0.001	<0.001	<0.001	<0.001	<0.1	<0.01	<0.2	<0.01	<0.01	<0.01	a	
	09/17/99	15	<0.001	<0.001	<0.001	<0.001	<0.1	<0.01	<0.2	<0.01	<0.01	<0.01	a	
	09/17/99	20	<0.001	<0.001	<0.001	<0.001	<0.1	<0.01	<0.2	<0.01	<0.01	<0.01	a	

Table 2
Soil Analytical Data

7-Eleven Store #20244
3625 MacDonald Avenue
Richmond, CA

Sample Number	Date	Depth (ft bgs)	Toluene (mg/kg)	Xylenes (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	DIPPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	Notes
Oxygen injection Wells										
I-1	12/15/04	15	<0.0050	<0.0050	<0.0050	1.3	-	0.16	-	-
		20	<0.0050	<0.0050	<0.0050	<1.0	-	0.30	-	-
		25	<0.0050	<0.0050	<0.0050	<1.0	-	0.50	-	-
I-2	12/14/04	15	0.22	<0.025	3.1	0.46	110	-	3.5	-
		20	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	-	1.5	-
I-3	12/14/04	15	1.8	0.88	36	85	1,400	-	6.6	-
		20	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	-	1.3	-
		25	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	-	0.43	-

Explanation

TPHg = Total petroleum hydrocarbons-as-gasoline
 (BTEX and TPHg analyzed using EPA 8020/8015 modified unless noted)

MIBE = Methyl-tert-butyl ether

TBA = Tert-butanol

DIPPE = Diisopropyl ether

ETBE = Ethyl-tert-butyl ether

TAME = Ter-amyl-methyl ether

mg/kg = milligrams per kilograms (parts per million)
 ft bgs = Feet below ground surface
 a = Data from IT Group "Additional Subsurface Investigation Report" dated October 29, 1999.
 b = Data from IT Group "Additional Site Assessment Report" dated October 14, 2001.
 c = Method blank contamination for xylenes
 - = Not analyzed, Not applicable

Table 3
Historical Groundwater Monitoring and Analytical Data

7-Eleven Store #20244
 3625 MacDonald Avenue
 Richmond, CA

Well ID	Sample Date	Elevation (TOC)	Benzene	Toluene	Ethyl-Benzene	Xylylene	TPH9	NMBE8020	MIBE8020	DPE	EIBE	TAME	DCA	EDB	SPT-1	WTE	
		(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(feet)	
Geoprobe Water Samples																	
GP-1W	05/20/98	12	7.9	15	0.68	1,400	83	--	<5,000	--	<250	--	--	--	--	--	
GP-2W	05/20/98	19	7.2	29	7.2	11,000	6,500	4,800	55	<250	<250	--	--	--	--	--	
GP-3W	05/20/98	2.5	1.1	<0.5	<0.6	470	--	--	--	--	--	--	--	--	--	--	
GP-4W	05/20/98	0.5	2.4	11	43	1,400	2,500	--	--	--	--	--	--	--	--	--	
Soil Boring Water Samples																	
SB-1W	09/17/99	<0.3	<0.3	<0.6	121	<5	<5	<20	<5	<5	<5	--	--	--	--	--	
SB-2W	09/17/99	0.78	1.16	<0.3	1.17	<50	6.93	6.79	<20	<5	<5	--	--	--	--	--	
SB-3W	09/17/99	1.12	<0.3	0.53	1.68	105	<5	<5	<20	<5	<5	--	--	--	--	--	
SB-4W	09/17/99	<0.3	3.65	0.85	4.6	781	<5	<20	<5	<5	<5	--	--	--	--	--	
SB-5W	09/17/99	<0.3	0.5	<0.3	<0.6	199	5.57	5.61	<20	<5	<5	--	--	--	--	--	
Monitoring Well Samples																	
MW-1	59.86	03/19/99	<0.3	<0.3	<0.3	<0.6	185	--	33.6	<20	10.4	<5	<5	1.5	10.34	0.00	
		05/31/99	<0.3	<0.3	<0.3	<0.6	465	--	105	<20	18.6	<5	<5	1.0	12.77	0.00	
		09/15/99	1.55	0.38	0.48	1.43	254	56.4	47.9	<20	14.5	<5	<5	--	14.60	0.00	
		12/14/99	1.31	0.93	1.32	<0.6	351	51.6	34.7	<20	23.2	<5	<1	1.6	19.99	0.00	
		03/01/00	<0.3	<0.3	<0.3	<0.6	249	10.9	13.2	<20	<5	<5	<1	a	8.15	0.00	
		03/29/00	--	--	--	--	--	--	--	--	--	--	--	--	1.7	51.71	
		06/05/00	<0.5	<0.5	<1	140	--	29	<50	7.8	<2	<2	--	--	1.2	12.50	
		09/18/00	<0.5	<0.5	<1	360	--	55	<120	26	<5	<5	--	0.3	14.30	0.00	
		12/04/00	<0.5	<0.5	<1.5	180	--	21	<120	18	<5	<5	--	0.4	14.50	0.00	
		03/12/01	<0.5	<0.5	<1	120	--	13	<50	<2	<2	<2	--	0.5	10.30	0.00	
		06/05/01	0.7	<0.5	<0.5	1	170	--	56	<50	20	<2	<2	0.6	14.00	0.00	
		09/21/01	<0.5	<0.5	<0.5	<50	--	130	23	26	<5	<5	--	0.6	15.70	0.00	
		12/05/01	<0.5	<0.5	<0.5	<50	--	14	<20	7.4	<5	<5	--	1.5	11.60	0.00	
		03/01/02	<0.5	<0.5	<0.5	<50	--	35	<20	18	<5	<5	--	1.3	11.91	0.00	
		06/06/02	<0.5	<0.5	<0.5	<50	180	35	31	<10	13	<1	<1	--	13.35	0.00	
		09/06/02	<0.5	0.85	<0.5	<0.5	190	27	27	7.4	13	<0.5	<0.5	1.1	14.82	0.00	
		11/22/02	<0.5	<0.5	<0.5	<50	400	--	13	<5	9.9	<0.5	<0.5	1.0	14.82	0.00	
		03/26/03	<0.50	<0.50	<0.50	<0.50	870	--	34	<5.0	6.3	<0.50	<0.50	c	0.3	11.91	0.00
		06/02/03	<0.50	<0.50	<0.50	<0.50	850	--	53	6.4	11	<0.50	<0.50	b,c	0.9	14.18	0.00
		09/02/03	<0.50	<0.50	<0.50	<0.50	730	--	25	<6.0	9.5	<0.50	<0.50	c	1.1	12.20	0.00
		12/22/03	<0.50	<0.50	<0.50	<0.50	640	--	9.9	<5.0	5.1	<0.50	<0.50	c	1.1	47.66	0.00
		03/10/04	<0.50	<0.50	<0.50	<0.50	380	--	24	<6.0	7.3	<0.50	<0.50	c	0.3	10.66	0.00
		06/16/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
		09/27/04	<0.50	<0.50	<0.50	<0.50	460	--	22	<5.0	19	<0.50	<0.50	c	0.4	14.95	0.00
		12/15/04	<0.50	<0.50	<0.50	<0.50	590	--	15	<5.0	3.5	<0.50	<0.50	c	2.4	12.14	0.00

Table 3
Historical Groundwater Monitoring and Analytical Data

7-Eleven Store #20244
369 MacDonald Avenue
Richmond, CA

Well ID/ Elevation (TOC)	Date	Groundwater Monitoring Data (µg/L)										Dissolved Oxygen Nuggets (mg/L)	SPT DTW (feet)					
		Ethy lene Benzene Toluene (µg/L)	Xylenes (µg/L)	TPHg (µg/L)	MME (µg/L)	MME (µg/L)	TBA (µg/L)	DPE (µg/L)	TAME (µg/L)	TAME (µg/L)	EDCA (µg/L)							
MW-2	03/19/99	<0.3	<0.3	<0.3	<0.6	384	-	83.9	<20	<5	<5	<5	10.16	0.00	49.49			
	05/31/99	<0.3	<0.3	<0.3	<0.6	578	-	262	<80	<20	<20	<20	1.7	12.60	0.00	47.05		
	09/15/99	1.75	0.44	1.06	1.56	362	271	335	<20	<5	<5	<5	-	14.44	0.00	45.21		
	12/14/99	1.03	0.57	1.05	<0.6	566	296	40	<40	<10	<10	<10	1.8	20.04	0.00	39.61		
	03/01/00	<0.3	<0.3	<0.3	<0.6	434	63.3	71	<20	<5	<5	<5	a	8.10	0.00	51.55		
	03/29/00	-	-	-	-	-	-	-	-	-	-	-	-	10.48	0.00	49.17		
	06/05/00	<5	<5	<5	<10	400	-	500	<500	<20	<20	<20	-	1.5	12.33	0.00	47.32	
	09/18/00	<0.5	<0.5	<0.5	<1	920	-	800	<620	<25	<25	<25	-	0.4	14.16	0.00	45.49	
	12/04/00	<0.5	<0.5	<0.5	<1.5	480	-	400	<620	<25	<25	<25	-	0.5	14.37	0.00	45.28	
	03/12/01	<0.5	<0.5	<0.5	<1	300	-	150	<100	<2	<4	<4	-	0.7	10.12	0.00	49.53	
	06/05/01	1.5	<1	1.9	<2	440	-	410	<250	<10	<10	<10	-	0.8	13.85	0.00	45.80	
	09/27/01	1.6	0.67	<0.5	0.52	<50	-	390	<100	<25	<25	<25	-	0.5	15.52	0.00	44.13	
	12/05/01	<0.5	<0.5	<0.5	<0.5	<50	-	130	<20	<5	<5	<5	-	1.0	11.50	0.00	48.15	
	03/01/02	<0.5	<0.5	<0.5	<0.5	<50	-	180	<20	<5	<5	<5	-	1.2	11.75	0.00	47.90	
	06/06/02	<0.5	<0.5	<0.5	<0.5	400	120	120	<25	<2.5	<2.5	<2.5	-	-	13.18	0.00	46.47	
	09/06/02	<0.5	<0.5	<0.5	<0.5	390	93	130	<25	<2.5	<2.5	<2.5	-	1.1	14.64	0.00	45.01	
	11/22/02	<0.5	<0.5	<0.5	<0.5	670	-	78	<5	1.3	<0.5	<0.5	-	0.9	14.80	0.00	44.85	
	03/26/03	<0.50	<0.50	<0.50	<0.50	1,800	-	45	<5.0	0.98	<0.50	<0.50	-	c	0.4	11.74	0.00	47.91
	06/02/03	<0.50	<0.50	<0.50	<0.50	1,800	-	39	<5.0	0.96	<0.50	<0.50	-	c	1.6	12.56	0.00	47.09
	09/02/03	<0.50	<0.50	<0.50	<0.50	1,300	-	44	<5.0	1.6	<0.50	<0.50	-	b,c	0.4	13.99	0.00	45.66
	12/22/03	<0.50	<0.50	<0.50	<0.50	1,100	-	26	<5.0	0.84	<0.50	<0.50	-	c	0.5	12.03	0.00	47.62
	03/10/04	<0.50	<0.50	<0.50	<0.50	1,100	-	18	<5.0	0.83	<0.50	<0.50	-	c	0.4	10.49	0.00	49.16
	06/16/04	<0.50	<0.50	<0.50	<0.50	1,300	-	19	<5.0	0.61	<0.50	<0.50	-	c	0.6	13.57	0.00	46.08
	09/27/04	<0.50	<0.50	<0.50	<0.50	1,200	-	20	<5.0	1.5	<0.50	<0.50	-	c	0.2	14.76	0.00	44.89
	12/15/04	<0.50	<0.50	<0.50	<0.50	1,600	-	14	<5.0	0.72	<0.50	<0.50	-	c	1.1	11.97	0.00	47.68

Table 3
Historical Groundwater Monitoring and Analytical Data

7-Eleven Store #20244
3625 MacDonald Avenue
Richmond, CA

Well ID	Sample Date	Benzene (ug/L)	Toluene (ug/L)	Ethyl Benzene (ug/L)	Xylenes (ug/L)	TPHg (ug/L)	NMMB (ug/L)	NMBE (ug/L)	TBA (ug/L)	DIBE (ug/L)	EBEE (ug/L)	TAME (ug/L)	EDCA (ug/L)	EDBA (ug/L)	SPTL (ug/L)	WTE (feet)
MW-3	03/19/99	696	786	552	777	62,400	-	84,400	<8,000	<2,000	<2,000	<2,000	<2,000	-	-	1.0
	05/31/99	664	406	435	402	39,200	-	92,800	<20,000	<5,000	<5,000	<5,000	<5,000	-	-	1.2
	09/15/99	386	104	263	206	34,100	65,200	80,100	<8,000	<2,000	<2,000	<2,000	<2,000	-	-	12.91
	12/14/99	515	<30	310	67	27,600	97,000	81,900	<10,000	<2,500	<2,500	<2,500	<2,500	<500	1.9	46.68
	03/01/00	701	744	509	927	47,300	63,300	59,100	<2,000	<500	<500	<500	<500	-	-	45.05
	03/29/00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	39.56
	06/05/00	770	74	120	<10	15,000	-	54,000	<50,000	<2,000	<2,000	<2,000	<2,000	-	-	20.03
	09/18/00	300	<5	110	<10	23,000	-	47,000	<50,000	<2,000	<2,000	<2,000	<2,000	-	-	0.00
	12/04/00	490	13	360	86	22,000	-	42,000	<50,000	<2,000	<2,000	<2,000	<2,000	-	-	39.56
	03/12/01	95	180	180	17,000	-	-	52,000	<50,000	<2,000	<2,000	<2,000	<2,000	-	-	46.68
	06/05/01	310	<12	100	<25	17,000	-	47,000	<62,000	<2,500	<2,500	<2,500	<2,500	-	-	44.21
	09/21/01	240	<10	120	<10	9,900	-	69,000	<10,000	<2,500	<2,500	<2,500	<2,500	-	-	45.13
	12/05/01	430	<5	310	19	6,100	-	75,000	<10,000	<2,500	<2,500	<2,500	<2,500	-	-	45.27
	03/01/02	580	270	390	<10	11,000	-	35,000	<10,000	<2,500	<2,500	<2,500	<2,500	-	-	47.71
	06/06/02	510	76	370	24	7,500	40,000	37,000	<10,000	<1,000	<1,000	<1,000	<1,000	-	-	48.39
	09/06/02	340	33	220	<10	2,900	36,000	43,000	<10,000	<1,000	<1,000	<1,000	<1,000	-	-	44.21
	11/22/02	330	<50	210	<50	<5,000	-	35,000	840	<50	<50	<50	<50	-	-	44.21
	03/26/03	490	<100	310	<100	<10,000	-	47,000	<1,000	<100	<100	<100	<100	-	-	45.89
	06/02/03	400	<100	290	<100	<10,000	-	41,000	<1,000	<100	<100	<100	<100	-	-	46.88
	09/02/03	160	<100	<100	<100	<10,000	-	43,000	<1,000	<100	<100	<100	<100	-	-	45.43
	12/22/03	270	<50	130	<50	<5,000	-	34,000	<500	<50	<50	<50	<50	-	-	47.25
	03/10/04	380	6.0	280	21	4,700	-	42,000	860	1.2	12	42	-	-	0.2	47.76
	06/16/04	360	<100	260	<100	<10,000	-	38,000	<1,000	<100	<100	<100	<100	-	-	47.76
	09/27/04	340	<50	360	<50	<5000	-	25,000	7,600	<50	<50	<50	<50	-	-	44.64
	12/15/04	310	<50	270	76	5,300	-	18,000	6,200	<50	<50	<50	<50	-	-	47.31

Table 3
Historical Groundwater Monitoring and Analytical Data

7-Eleven Store #20244
3675 McDonald Avenue
Richmond, CA

Well ID (TOC)	Date	Benzene		Toluene		Xylene		TPHg		TPHb		MBE		DPE		AME		EDB		DCA		TAME		EBE		DPE		AME		EDB		Notes		Dissolved Oxygen (mg/L)		SPT (Net) (feet)	
		[µg/L]	(µg/L)	[µg/L]	(µg/L)	[µg/L]	(µg/L)	[µg/L]	(µg/L)	[µg/L]	(µg/L)	[µg/L]	(µg/L)	[µg/L]	(µg/L)	[µg/L]	(µg/L)	[µg/L]	(µg/L)	[µg/L]	(µg/L)	[µg/L]	(µg/L)	[µg/L]	(µg/L)	[µg/L]	(µg/L)	[µg/L]	(µg/L)	[µg/L]	(µg/L)	[µg/L]	(µg/L)				
MW-4	59.20	09/21/01	3.3	<0.5	2.4	0.84	210	-	1,100	<100	<25	<25	<25	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	0.7	16.10	0.00	43.10			
	12/05/01	<0.5	<0.5	<0.5	<0.5	0.65	92	-	-	<5	<20	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	0.7	13.55	0.00	45.65				
	03/01/02	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<50	-	<5	<20	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	0.9	13.73	0.00	45.47				
	06/06/02	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<50	<5	0.62	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	1.0	14.50	0.00	44.70				
	09/06/02	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	1.0	15.35	0.00	43.85				
	11/22/02	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<50	-	0.64	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	1.3	15.42	0.00	43.78				
	03/26/03	<0.50	<0.50	<0.50	<0.50	<0.50	<50	<50	-	0.93	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	b	0.3	13.58	0.00	45.62			
	06/02/03	<0.50	<0.50	<0.50	<0.50	<0.50	<50	<50	-	1.1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	1.8	14.23	0.00	44.97				
	09/02/03	<0.50	<0.50	<0.50	<0.50	<0.50	<50	<50	-	1.6	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	b	1.7	14.74	0.00	44.46				
	12/22/03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
	03/10/04	<0.50	<0.50	<0.50	<0.50	<0.50	<50	<50	-	0.89	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	0.3	12.99	0.00	46.21				
	06/16/04	<0.50	<0.50	<0.50	<0.50	<0.50	<50	<50	-	1.9	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	0.8	14.91	0.00	44.29				
	09/27/04	<0.50	<0.50	<0.50	<0.50	<0.50	<50	<50	-	2.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	c	0.9	15.61	0.00	43.59				
	12/15/04	<0.50	<0.50	<0.50	<0.50	<0.50	<50	<50	-	0.59	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	1.8	13.90	0.00	45.30				
MW-5	58.94	09/21/01	1.1	0.52	1.4	1.6	<50	-	-	<5	<20	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	0.5	15.35	0.00	43.59			
	12/05/01	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<50	-	<5	<20	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	1.1	12.60	0.00	46.34				
	03/01/02	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<50	-	0.65	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	1.0	12.43	0.00	46.51				
	06/06/02	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<50	-	0.53	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	1.0	13.40	0.00	45.54				
	09/06/02	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<50	-	0.76	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	1.0	14.50	0.00	44.44				
	11/22/02	<0.5	<0.5	<0.5	<0.5	<0.5	<50	<50	-	0.50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	b	1.0	14.92	0.00	44.02				
	03/26/03	<0.50	<0.50	<0.50	<0.50	<0.50	<50	<50	-	<0.50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	0.5	12.20	0.00	46.74				
	06/02/03	<0.50	<0.50	<0.50	<0.50	<0.50	<50	<50	-	<0.50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	3.4	12.96	0.00	45.98					
	09/02/03	<0.50	<0.50	<0.50	<0.50	<0.50	<50	<50	-	0.79	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	d	0.7	13.93	0.00	45.01				
	12/22/03	<0.50	<0.50	<0.50	<0.50	<0.50	<50	<50	-	0.72	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	0.3	12.61	0.00	46.33					
	03/10/04	<0.50	<0.50	<0.50	<0.50	<0.50	<50	<50	-	<0.50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	0.3	11.26	0.00	47.68					
	06/16/04	<0.50	<0.50	<0.50	<0.50	<0.50	<50	<50	-	<0.50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	0.7	13.79	0.00	45.15					
	09/27/04	<0.50	<0.50	<0.50	<0.50	<0.50	<50	<50	-	0.56	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	0.2	14.87	0.00	44.07					
	12/15/04	<0.50	<0.50	<0.50	<0.50	<0.50	<50	<50	-	<0.50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	2.3	12.40	0.00	46.54					

Table 3
Historical Groundwater Monitoring and Analytical Data

7-Eleven Store #20244
3625 MacDonald Avenue
Richmond, CA

Well ID Data Elevation (TOC)	TPHg Benzene Toluene Data (TOC)	Ethy Toluene Benzene Data (TOC)	MIBE MIBE TPHg TBA Data (TOC)	Ethy Kylene Benzene Toluene Data (TOC)	MIBE MIBE TPHg TBA DPE Data (TOC)	TAME EIBE DPE TBA Data (TOC)	DCA EDB Notes Data (TOC)	Dissolved Oxygen WTE (feet)	DTW SPT Notes Data (feet)
Explanation									
TPHg = Total petroleum hydrocarbons-as-gasoline			1,2-DCA = 1,2-dichloroethane						
MIBE = Methyl-tert-butyl ether			EDB = 1,2-dibromoethane						
TBA = Tert-butanol			DTW = Depth to water						
DPE = Diisopropyl ether			SPT = Separate-phase hydrocarbon thickness						
EIBE = Ethyl-tert-butyl ether			WTE = Water table elevation						
TAME = Tert-amyl-methyl ether			TOC = Top of casing elevation in feet above mean sea level						
Notes									
Historical data prior to 03/26/03 sample date provided by Shaw E&I.									
Samples analyzed using EPA Method 8260B starting with 03/26/03 sample date.									
a = Suspected malfunction of gauging probe on 03/01/00; wells regauged 03/23/00.									
b = Matrix Spike/Matrix Spike Duplicate Results for MIBE were affected by the analyte concentration already present in the un-spiked sample.									
c = Hydrocarbons reported as TPHg do not exhibit a typical Gasoline chromatographic pattern.									
d = TBA may be biased slightly high. A fraction of MIBE (typically less than 1%) converts to TBA during the analysis of water samples. Kiff considers this conversion effect to be mathematically significant in samples that contain MIBE/TBA in ratios of over 20:1.									

Table 4
Oxygen Injection Summary

7-Eleven Store #20244
3625 MacDonald Avenue
Richmond, California

Well Number	Date of Injection	Oxygen Injection Data				Comments				
		Oxygen Volume Injected (ft ³)	Mass Injected (pounds)	Length of Injection (hours)	Cumulative Mass Oxygen Injected (pounds)					
I-1	01/11/05	150	13.4	1.0	13.4	I-1 Injected Alone				
	01/25/05	150	13.4	1.0	26.7	I-1 Injected Alone				
	02/08/05	150	13.4	1.0	40.1	I-1 and I-2 Injected Simultaneously				
I-2	01/11/05	150	13.4	1.0	13.4	I-2 Injected Alone				
	01/25/05	150	13.4	1.0	28.7	I-2 Injected Alone				
	02/08/05	150	13.4	1.0	40.1	I-1 and I-2 Injected Simultaneously				
I-3	01/11/05	150	13.4	0.8	13.4	I-3 Injected Alone				
	01/25/05	150	13.4	1.0	26.7	I-3 Injected Alone				
	02/08/05	150	13.4	0.8	40.1	I-3 Injected Alone				
<u>Explanation</u>		120.2	Total Pounds Oxygen Injected							
Dissolved Oxygen Readings collected using downhole meter										
mg/L = milligrams per liter										
ft ³ = cubic feet										
1 ft ³ O ₂ = 0.089 lb of O ₂										
— = Not measured/not sampled										

Table 5
Dissolved Oxygen Summary

7-Eleven Store #20244
3625 MacDonald Avenue
Richmond, California

Well ID	Date of Injection	Dissolved Oxygen		Comments
		Pre-Injection (mg/L)	Post Injection (mg/L)	
Dissolved Oxygen Monitoring Wells				
MW-1	01/11/05	2.4	3.8	Oxygen Injection Event
	01/25/05	2.5	3.8	Oxygen Injection Event
	01/26/05	—	3.7	Oxygen Injection Event
	02/08/05	2.6	3.9	Oxygen Injection Event
MW-2	01/11/05	2.7	3.7	Oxygen Injection Event
	01/25/05	3.0	4.2	Oxygen Injection Event
	01/26/05	—	4.4	Oxygen Injection Event
	02/08/05	3.4	4.4	Oxygen Injection Event
MW-3	01/11/05	2.5	7.0	Oxygen Injection Event
	01/25/05	4.1	8.2	Oxygen Injection Event
	01/26/05	—	7.8	Oxygen Injection Event
	02/08/05	8.0	17.6	Oxygen Injection Event
MW-4	01/11/05	3.6	—	Oxygen Injection Event
	01/25/05	3.0	—	Oxygen Injection Event
	01/26/05	3.8	3.8	Oxygen Injection Event
	02/08/05	3.0	3.0	Oxygen Injection Event
MW-5	01/11/05	2.4	—	Oxygen Injection Event
	01/25/05	2.4	—	Oxygen Injection Event
	01/26/05	2.8	—	Oxygen Injection Event
	02/08/05	2.2	2.2	Oxygen Injection Event
<u>Explanation</u>				
Dissolved Oxygen collected using downhole meter				
mg/L = milligrams per liter				
— = Not measured				

**ATTACHMENT A
AGENCY CORRESPONDENCE**

Well Installation and Oxygen Injection Feasibility Test Report
7-Eleven Store #20244
3625 MacDonald Avenue
Richmond, California 94805-2114
SECOR Project No.: 77EL.20244.05.0502



California Regional Water Quality Control Board

San Francisco Bay Region

Terry Tamminen
Secretary for
Environmental
Protection

1515 Clay Street, Suite 1400, Oakland, California 94612
(510) 622-2300 • Fax (510) 622-2460
<http://www.swrcb.ca.gov/rwqcb2>



Arnold Schwarzenegger
Governor

October 4, 2004
File No. 07-0764 (BGS)

7-Eleven, Inc.
Attn: Mr. Bob DeNinno
10220 S.W. Greenburg Road, Suite 470
Portland, Oregon 97233

OCT 08 2004

BY: -----

SUBJECT: Approval of Work Plan for Remediation Well Installation and Oxygen Injection Feasibility Test – 7-Eleven Store No. 20244, 3625 MacDonald Avenue, Richmond, Contra Costa County

Dear Mr. DeNinno:

Board staff have reviewed the *Work Plan for Remediation Well Installation and Oxygen Injection Feasibility Test*, dated September 14, 2004, prepared by Secor International Inc. The work plan proposes installation of three oxygen injection test wells, and conducting an oxygen injection test to evaluate the effectiveness of oxygen injection for enhancing in-situ biodegradation of the residual hydrocarbons in soil and groundwater at the subject site. The proposed scope of work is hereby approved.

The report presenting the well installation and oxygen injection test activities is due in this office by January 4, 2005. You should be aware that this is a formal request for a technical report pursuant to California Water Code 13267. Failure to respond or a late response to this request may subject you to civil liability imposed by the Board to a maximum amount of \$1,000 per day. Any extension of the time deadlines set forth above must be confirmed in writing by Board staff.

Please include an electronic copy of the site investigation proposal in "pdf" electronic format or comparable. All documents submitted should have the Regional Board file number 07-0764 on the first page of the report. A copy of any submittal should also be sent to the CCCHSD in Martinez. Please direct all questions and correspondence regarding this matter to Barbara Sieminski (tel: 510-622-2423) or e-mail bgs@rb2.swrcb.ca.gov.

Sincerely,

for
Bruce H. Wolfe
Executive Officer

cc:

Mr. Paul Andrews
CCCHSD
4333 Pacheco Blvd.
Martinez, CA 94553

Mr. Daniel Davis
Secor International Inc.
3017 Kilgore Rd, Ste 100
Rancho Cordova, CA 95670

Preserving, enhancing, and restoring the San Francisco Bay Area's waters for over 50 years

**ATTACHMENT B
WELL PERMITS**

Well Installation and Oxygen Injection Feasibility Test Report
7-Eleven Store #20244
3625 MacDonald Avenue
Richmond, California 94805-2114
SECOR Project No.: 77EL.20244.05.0502



ENVIRONMENTAL HEALTH DIVISION
2120 DIAMOND BOULEVARD, SUITE 200
CONCORD, CA 94520
(925) 646-5225
FAX (925) 646-5168
www.ccoeh.org



20244

FACSIMILE TRANSMITTAL COVER SHEET

DATE: 10-27-04

TO: ATTN SCOTT GRAHAM
SECOR INT'L FROM: MICHAEL
FAX#: 916-861-0430 # OF PAGES: 4 (INCLUDING COVER SHEET)
RE: APPROVED PERMIT(S)

PRIORITY ROUTINE FOR REVIEW

COMMENTS:

FAX REQUEST FOR INSPECTION APPOINTMENT

TO 925-646-5888

If you have any problems with receipt of transmittal, please call (925) 646-5225

~~CONTRA COSTA
HEALTH SERVICES~~

**CONTRA COSTA
ENVIRONMENTAL HEALTH DIVISION**
2120 DIAMOND BOULEVARD, SUITE 200
CONCORD, CA 94520
(925) 646-5226
www.cocoeh.org



Well Permit

WP0003207

PR Number: 21079

PE Number: 4369

Date Received: 22 OCT 04

Permit Number: 04-2071

Permit Approved/Issued by:

[Signature]
Environmental Health Specialist

Date Issued: 10-27-04

NEW WELL 12	() SOIL BORINGS	WELL ABANDONMENT	REPAIR
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The issuance of this permit by Contra Costa County Environmental Health Division does not guarantee a satisfactory and an indefinite operation of any well. Permit expires in 180 calendar days from date of approval. Permits are non-transferable, and can be suspended or revoked. If more time is required for the project, a time extension may be granted if reasons warrant it in writing.

PROJECT SITE INFORMATION

Site Address: 3525 MACDONALD AVE, RICHMOND

APN: 516-202-020

Lot/Parcel #:

Subdivision #:

Minor Subdivision #:

DRILLER / CONSULTANT INFORMATION

Driller: GREGG DRILLING

Contact Person: CHRIS PRUNER

Phone #: 925-313-5800

FAX#: 925-313-0302

Consultant: SECOR INTERNATIONAL

Contact Person:

Phone #: 916-861-0400

FAX#: 916 861 0430

LEGAL OWNER INFORMATION

Legal Owner Name: 7-ELEVEN INC

Alternate Phone #:

Owner Address: 2711 N HASKELL AVE

City/State/Zip: DALLAS, TX 75204

Phone #: 214-841-6592

Contact the Contra Costa County Environmental Health Division appointment desk and obtain a confirmed appointment time and date prior to any drilling construction or destruction of a well. **Voice mail messages are not acceptable.** The appointment desk sends confirmation via telephone or fax.

Well drillers must possess a valid C-57 license and must have on file a performance bond of \$5,000.00 with Contra Costa County before commencing with any well construction, destruction or repairs.

WELL PERMIT CONDITIONS:

1. Proper annular seals and surface construction features are to be installed and required water analyses completed within 30 days of commencing drilling.
2. Monitoring well/soil boring shall be destroyed pursuant to County regulations within 30 days of completing monitoring activities.
3. Other: _____

Final Approval by: _____

Date: _____

CONTRA COSTA
HEALTH SERVICES

**CONTRA COSTA
ENVIRONMENTAL HEALTH DIVISION**
2120 DIAMOND BOULEVARD, SUITE 200
CONCORD, CA 94520
(925) 646-5225
www.cocoeh.org



Well Permit

WP0003208

PR Number: 21080

PE Number: 4369

Date Received: 22 OCT 04

Permit Number: 04-2072

Permit Approved/Issued by:

[Signature]
Environmental Health Specialist

Date Issued: 10-27-04

NEW WELL H	() SOIL BORINGS	WELL ABANDONMENT	REPAIR
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The issuance of this permit by Contra Costa County Environmental Health Division does not guarantee a satisfactory and an indefinite operation of any well. Permit expires in 180 calendar days from date of approval. Permits are non-transferable, and can be suspended or revoked. If more time is required for the project, a time extension may be granted if reasons warrant it in writing.

PROJECT SITE INFORMATION

Site Address: 3525 MACDONALD AVE, RICHMOND

APN: 516-202-020

Lot/Parcel #:

Subdivision #:

Minor Subdivision #:

DRILLER / CONSULTANT INFORMATION

Driller: GREGG DRILLING

Contact Person: CHRIS PRUNER

Phone #: 925-313-5800

FAX#: 925-313-0302

Consultant: SECOR INTERNATIONAL

Contact Person:

Phone #: 916-861-0400

FAX#:

LEGAL OWNER INFORMATION

Legal Owner Name: 7-ELEVEN INC

Alternate Phone #:

Owner Address: 2711 N HASKELL AVE

City/State/Zip: DALLAS, TX 75204

Phone #: 214-841-6592

Contact the Contra Costa County Environmental Health Division appointment desk and obtain a confirmed appointment time and date prior to any drilling construction or destruction of a well. *Voice mail messages are not acceptable.* The appointment desk sends confirmation via telephone or fax.

Well drillers must possess a valid C-57 license and must have on file a performance bond of \$5,000.00 with Contra Costa County before commencing with any well construction, destruction or repairs.

WELL PERMIT CONDITIONS:

- Proper annular seals and surface construction features are to be installed and required water analyses completed within 30 days of commencing drilling.
- Monitoring well/soil boring shall be destroyed pursuant to County regulations within 30 days of completing monitoring activities.
- Other: _____

Final Approval by: _____

Date: _____

**CONTRA COSTA
HEALTH SERVICES**

**CONTRA COSTA
ENVIRONMENTAL HEALTH DIVISION**
2120 DIAMOND BOULEVARD, SUITE 200
CONCORD, CA 94520
(925) 646-5225
www.cocaeht.org



Well Permit

WP0003209

PR Number: 21081

PE Number: 4369

Date Received: 22 OCT 04

Permit Number: 04-2073

Permit Approved/Issued by: _____

Date Issued: 10-27-04

Environmental Health Specialist

NEW WELL 13	() SOIL BORINGS	WELL ABANDONMENT	REPAIR
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The issuance of this permit by Contra Costa County Environmental Health Division does not guarantee a satisfactory and an indefinite operation of any well. Permit expires in 180 calendar days from date of approval. Permits are non-transferable, and can be suspended or revoked. If more time is required for the project, a time extension may be granted if reasons warrant it in writing.

PROJECT SITE INFORMATION

Site Address: 3525 MACDONALD AVE, RICHMOND

Lot/Parcel #:

APN: 516-202-020

Minor Subdivision #:

Subdivision #:

DRILLER / CONSULTANT INFORMATION

Driller: GREGG DRILLING

Contact Person: CHRIS PRUNER

Phone #: 925-313-5800

FAX#: 925-313-0302

Consultant: SECOR INTERNATIONAL

Contact Person:

Phone #: 916-861-0400

FAX#:

LEGAL OWNER INFORMATION

Legal Owner Name: 7-ELEVEN INC

Alternate Phone #:

Owner Address: 2711 N HASKELL AVE

City/State/Zip: DALLAS, TX 75204

Phone #: 214-841-6592

Contact the Contra Costa County Environmental Health Division appointment desk and obtain a confirmed appointment time and date prior to any drilling construction or destruction of a well. **Voice mail messages are not acceptable.** The appointment desk sends confirmation via telephone or fax.

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WELL PERMIT CONDITIONS:

1. Proper annular seals and surface construction features are to be installed and required water analyses completed within 30 days of commencing drilling.
2. Monitoring well/soil boring shall be destroyed pursuant to County regulations within 30 days of completing monitoring activities.
3. Other: _____

Final Approval by: _____

Date: _____

**ATTACHMENT C
FIELD NOTES**

Well Installation and Oxygen Injection Feasibility Test Report
7-Eleven Store #20244
3625 MacDonald Avenue
Richmond, California 94805-2114
SECOR Project No.: 77EL.20244.05.0502

JOB NAME:	7-Eleven Store #20244	JOB NUMBER:	77EL.20244.05.1006
SITE ADDRESS:	3625 MacDonald Ave.	START DATE:	2/8/05
	Richmond, CA	DATE PREPARED:	2/7/2005
PREPARED FOR:	<u>Tom</u>	PREPARED BY:	Tom Miller

SITE VISITATION REPORT

Name(s) Tom Date: 2/8/05 Did you call in? Yes No
 Arrival Time: 1130 "Departure Time: 1530 Who did you call? Tim
 Weather Notations: SUM CLOUDY RAIN SNOW Temperature 55° F

DRUM INVENTORY

WATER	CARBON	TOTAL OPEN TOP	<u>0</u>
SOIL	EMPTY	TOTAL BUNG TOP	<u>0</u>

HEALTH AND SAFETY ASSESSMENT

HAZARDOUS WASTE
PPG
O2 FLAME
TRIPS
TRAFFIC

INSTRUMENT CALIBRATION NOTES

Instrument Type CO2AP +

Instrument Calibration Method and Results

Calibration Readings Pre Injection: 10.60 Post Injection: 10.32

Agitated Water Readings: Pre Injection: 10.59 Post Injection: 10.30

Instrument Type CO2AP +

Instrument Calibration Method and Results AIR - 20.9% O2

Instrument Type SORVINST

Instrument Calibration Method and Results WATER

Instrument Type

Instrument Calibration Method and Results

JOB NAME:	7-Eleven Store #20244	JOB NUMBER:	77EL.20244.05.1006
SITE ADDRESS:	3625 MacDonald Ave.	START DATE:	<u>2/03/05</u>
	Richmond, CA	DATE PREPARED:	2/7/2005
PREPARED FOR:	<u>JDR</u>	PREPARED BY:	Tom Miller

DESCRIPTION OF ACTIVITIES ON SITE AND NOTES (cont)

Field Work Conducted By: JDR

Date: 2/03/05

1130 ADV ONSITE AND CHK.W/711 AND CAn TM. SAFETY:
 1) Air - FOR EXHAUST. PROB.
 2) Pk - GLVs, GLSSG WEST, EPT, KN-PDS
 3) TRIPS - Dstn ANDES.
 4) TRAFFIC - TAKE OFF TRUCK + WHEELS, USE TRUCK AS
 TRAFFIC BARRIERS.
 5) OZ FUME - NO SMOKE & SIGNS, WIND DIR?!

Prec Ctl DD = 10.68

WTR AS = 10.59

Post Ctl DD = 10.32

WTR AS = 10.30

TAKk RINGS - USE TRUCK IN - TRAFFIC CONTROL @ STREET
 AND PARKING LOTS.

1300 STARTED OZ. INX @ I-1, 2, 3.

I-1, 2 FOR 60 MIN. @ 35 PSI.

I-3 FOR 50 MIN. @ 35 PSI. AFTER REGRATING
 THE WHEEL BASIC ZINGS PRIOR, THERE IS STILL A SLIGHT
 AIR LEAKS AROUND THE CSG.

1430 TAKE Post DD's @ All MU's

1530 DEPART SITE

JOB NAME:	7-Eleven Store #20244	JOB NUMBER:	77EL_20244.05.1006
SITE ADDRESS:	3625 MacDonald Ave.	START DATE:	<u>2/8/05</u>
PREPARED FOR:	<u>TDR</u>	DATE PREPARED:	<u>2/7/05</u>
		PREPARED BY:	Tom Miller

WORK REQUEST FORM

WELL ID	DTB ft.bgs	WELL DIAM.	DTW ft TOC	DO Before Injection		DO After Injection		COMMENT
				(mg/L)	time	(mg/L)	time	
MW-1	25.0	2"	11.40	2.60	1225	3.90	1450	
MW-2	25.0	2"	11.20	3.40	1235	4.40	1440	
MW-3	25.0	2"	10.00	8.00	1245	17.00	1430	
MW-4	25.0	2"	11.90	3.00	1145	3.00	1515	
MW-5	25.0	2"	11.20	2.20	1210	2.20	1530	
I-1	27.0	3/4"						
I-2	27.0	3/4"						
I-3	27.0	3/4"						

SEALED WELS UNA

10.68/1032

10.59/1030

JOB NAME: 7-Eleven Store #20244
SITE ADDRESS: 3625 MacDonald Ave.
Richmond, CA
PREPARED FOR: JDE

JOB NUMBER:
START DATE:
DATE PREPARED:
PREPARED BY:

TEL: 20244-05-1006
2/8/05
2/7/2005
Tom Miller

Oxygen Injection Monitoring Summary

Injection Well	Start Time	Finish Time	Elapsed Time	O2		Adjacent Monitoring Point	O2 Reading	Vadose (% EEL)	Notes
				Injection Pressure (PSI)	Injection Volume (cubic feet)				
1-1,2,3	-	-	-	-	-	MW-1	18.10	1225	Pre-injection Readings
	-	-	-	-	-	MW-2	18.4	1235	Pre-injection Readings
						MW-3	19.1	1245	Pre-injection Readings
1-1,2	13:00	14:00	60	35	150 EA	2.5	MW-1	18.10	1225
1-3	13:00	13:50	50	75	150	20	MW-1	18.0	1210
						MW-1	17.2	1330	
						MW-2	18.4	1235	
						MW-2	17.9	1315	
						MW-2	16.8	1340	
						MW-3	19.1	1245	
						MW-3	11.4	1320	
						MW-3	9.3	1345	

JOB NAME:	7-Eleven Store #20244	JOB NUMBER:	77EL.20244.05.1006
SITE ADDRESS:	3625 MacDonald Ave.	START DATE:	1/25/05 + 1/26/05
PREPARED FOR:	502	DATE PREPARED:	1/21/2005
		PREPARED BY:	Tom Miller

SITE VISITATION REPORT

Name(s) 502 Date: 1/25 & 1/26/05 Did you call in? Yes No _____
 Arrival Time: 0800 / 0800 Departure Time: 1300 Who did you call? Tim
 Weather Notations: SUN CLOUDY RAIN SNOW Temperature 38° F

DRUM INVENTORY

WATER	CARBON	TOTAL OPEN TOP
SOIL	EMPTY	TOTAL BUNG TOP

HEALTH AND SAFETY ASSESSMENT

HAZ
TRAFFIC
TRIPS
O₂ FLAME
PPE

INSTRUMENT CALIBRATION NOTES

Instrument Type QSI 550R

Instrument Calibration Method and Results

Calibration Readings Pre Injection: 11.14 / 10.74 Post Injection: 10.80 / 10.51

Agitated Water Readings: Pre Injection: 11.68 / 10.90 Post Injection: 10.72 / 10.44

Instrument Type QRAFET

Instrument Calibration Method and Results AeR = 20.9% O₂

Instrument Type SOLINST

Instrument Calibration Method and Results WCR

Instrument Type

Instrument Calibration Method and Results

JOB NAME:	7-Eleven Store #20244	JOB NUMBER:	77EL.20244.05.1006
SITE ADDRESS:	3625 MacDonald Ave.	START DATE:	1/25 + 1/26/02
PREPARED FOR:	JDR	DATE PREPARED:	1/21/2005
		PREPARED BY:	Tom Miller

DESCRIPTION OF ACTIVITIES ON SITE AND NOTES (cont)

Field Work Conducted By:

JDR

Date: 1/25/05 (TUE. MORN.)

- (800) NEW ON SITE TALK W/RANDAL (OWNER) + TM. SAFETY:
HAS P-FAR & EMERG. PREC.
O₂ FLAME - POST NO SMOKING SIGNS, MONITOR O₂ + WIND
PPE - GLOVES, GLNS, VEST, KN-PDS
TRAFFIC - TAPE + CONE OFF TRUCK + WALLS, LOCK TRUCK
TRIPS - BY ALERT.
ALWAYS USE TRUCK AS TRAFFIC CONTROLLER ON STREETS + PKW
PRE CAL DO = , AG. WTR = / POST CAL DO = , AG. WTR =
TAKE WELL DOGS ON + OFF SITE IN STREETS
0900 AS PER REQ. FOR O₂ MIGRATION (BY D.D.) START O₂ IN (@ I-1) FOR 30 MIN @ 30 PSI. NOTICED THAT THE BOTTLE
PRESSURE DIDNT DROPPED FROM 1500 PSI (2200 PSI STARTING)
UPPED THE IN. PRESS. 30 TO 40 PSI FOR ANOTHER 30 MIN.
*MW-3 TOOK A VERY SLIGHT AMOUNT OF FLOW INCREASE BY
VERY SLIGHTLY INFLATING THE CAPPED (MW-3) WELL WITH
A PLASTIC BAG SEALED AROUND THE TOP OF THE CSK W/ A RUBBER
BAND.
1030 O₂ IN: STARTED TO I-3 FOR 35 PSI FOR 60 MIN.
*MW-3 INCREASED QUITE A BIT, INFLATING THE BAG ALMOST FULLY.
THE WELL STILL HAS SOME O₂ LEAKING AROUND THE WELL CSK.
1130 O₂ IN: STARTED TO I-2 FOR 35 PSI FOR 60 MIN.
*NO NOTICABLE INFLATION @ THE MW-3 PLASTIC BAG OVER THE WELL.
1200 POST DO's TAKEN @ MW-1,2,3 AS PER REQ. THEN DPT SITE.
JDR
1/26/05 (WED. MORN.)
(800) NEW ON SITE AND TALK W/RANDAL AND TM. SAFETY: (LISTED ABOVE)
PRE CAL DO = , AG. WTR = / POST CAL DO = , AG. WTR =
TAKE POST DO's @ MW-1, 2, 3, 4, 5 ON + OFF SITE.
*1000 GRANT IN I-3 WELL DO'S OUT OF EXISTING GRANT TO TIEY AND START O₂ IN!
1030 DPT SITE.

JOB NAME:	7-Eleven Store #20244	JOB NUMBER:	77EL.20244.05.1006
SITE ADDRESS:	3625 MacDonald Ave.	START DATE:	1/25/05 + 1/26/05
PREPARED FOR:	TDR	DATE PREPARED:	1/21/05
		PREPARED BY:	Tom Miller

WORK REQUEST FORM

WELL ID	DTB ft bgs	WELL DIAM	DDIV ft TOC	DO		DO		COMMENTS
				Before Injection	After Injection	Before Injection	After Injection	
MW-1	25.0	2"	10.70	2.50	0990	3.00	1255	3.70 - 0900
MW-2	25.0	2"	10.50	3.00	0910	4.10	1245	4.40 - 0910
MW-2 MW-3	25.0	2"	10.60	4.10	0920	8.20	1235	7.80 - 0920
MW-4	25.0	2"	12.40	3.00	0845	Not Taken		3.00 - 0845
MW-5	25.0	2"	11.60	2.40	0820	Not Taken		2.80 - 0820
I-1	27.0	3/4"						
I-2	27.0	3/4"						
I-3	27.0	3/4"						

SEALED WELLS

1/26/05

1/27/05

$$\text{Pre CAL DO} = 11.10 \quad | \quad 10.76 = \text{Post CAL DO}$$

$$\text{H}_2\text{O AG} = 11.68 \quad | \quad 10.90 = \text{H}_2\text{O AG}$$

$$\text{Pre CAL DO} = 10.80 \quad | \quad 10.5 = \text{Post CAL DO}$$

$$\text{H}_2\text{O AG} = 10.73 \quad | \quad 10.44 = \text{H}_2\text{O AG}$$

JOB NAME: 7-Eleven Store #20244
 SITE ADDRESS: 3625 MacDonald Ave.
 PREPARED FOR: 501
 Richmond, CA

JOB NUMBER: 77EI.20244.05.1006
 START DATE: 1/25/05
 DATE PREPARED: 1/21/2005
 PREPARED BY: Tom Miller

Oxygen Injection Monitoring Summary

Injection Well	Time	Furnished	O2 %	O2 Reading	Yadose (%LEL)	Pre-injection time	Notes		
							Injection Method	Injection Pressure (psi)	Volume (Cubic Feet)
I-1	1030	1030	60	30-40	150	2.5	-	-	MW-1
I-1	1030	1030	60	35	150	2.5	-	-	MW-2
I-2	1130	1230	60	35	150	2.5	-	-	MW-3
I-3	1030	1030	60	35	150	2.5	(B.7	0910	
							MW-2	0950	
							MW-2	17.0	1245
							MW-3	19.4	0920
							MW-3	11.7	1000
							MW-3	9.6	1120
							MW-3	8.7	1235

JOB NAME:	7-Eleven Store #20244	JOB NUMBER:	77EL.20244.05.1006
SITE ADDRESS:	3625 MacDonald Ave.	START DATE:	1/11/2005 + 1/12/05
PREPARED FOR:	<u>Tom</u>	DATE PREPARED:	1/7/2005
		PREPARED BY:	Tom Miller

SITE VISITATION REPORT

Name(s) Tom Date: 1/11/05 Did you call in? Yes No
 Arrival Time: 0800 Departure Time: 1300 Who did you call?
 Weather Notations: SUN RAIN SNOW Temperature 48 F

DRUM INVENTORY

WATER	CARBON	TOTAL OPEN TOP
SOIL	EMPTY	TOTAL BUNG TOP

HEALTH AND SAFETY ASSESSMENT

Hazard
TOXIC
TRIP
FIRE
Or Flame

INSTRUMENT CALIBRATION NOTES

Instrument Type YSI 550A

Instrument Calibration Method and Results

Calibration Readings

Pre Injection: 10.53 / 10.68 Post Injection: 9.70 / 9.89

Agitated Water Readings:

Pre Injection: 10.50 / 10.47 Post Injection: 9.61 / 9.80

Instrument Type DRAP+

Instrument Calibration Method and Results AIR = 20.9% O₂

Instrument Type SORVET

Instrument Calibration Method and Results WLR

Instrument Type

Instrument Calibration Method and Results

JOB NAME:	7-Eleven Store #20244	JOB NUMBER:	77EL.20244.05.1006
SITE ADDRESS:	3625 MacDonald Ave.	START DATE:	1/11/2005 + 1/12/05
RICHMOND, CA		DATE PREPARED:	1/7/2005
PREPARED FOR:	TDR	PREPARED BY:	Tom Miller

DESCRIPTION OF ACTIVITIES ON SITE AND NOTES (cont)

Field Work Conducted By: TDR

Date: 1/11/05 (Tues)

0800 ARRIVED ON SITE ON 7TH AND GENE IN 711. SAFETY: PPE - HELMET, GLOVES, GOGGLES, KN-PDS

TRAFFIC - VSB. TRUCK AS A BARRACADE AND QAPP OFF WORK AREAS. BLOCK STREET THRU DRIVIN TRIPS - BE CAUTIOUS IN RAIN.

O2 FLAME - NO SMOKING GLOBS, MORTAR

* CUT 3/4" WELL HOS AND GIVED FEINT LINE ADPT. FOR IN. CTI-3.

PRE GR D0 = 10.53 ATG = 10.50 / POST GR D0 = 9.70 ATG = 9.61

TAKE PADS IN THE C JACKET'S FOR MW-4, S TAB) ON SITE.

► THEN IN THE ORDER REQUESTED, ONE BY ONE BY DAN DAVIS: O2 IN MW-1 FOR 60 MIN @ 30 PSI. VERY SLIGHT O2

MIGRATION TO MW-3. GLOVE INFLATION @ MW-3 VERY SLIGHT BUT NOTICABLE.

02 IN MW-1 FOR 45 MIN @ 30 PSI. FASTER O2

MIGRATION TO MW-3. O2 BUBBLING UP THRU THE WELD BOX FLOOR @ 30 AND 20 PSI. TAB UNSCREWED DUE TO 1/4" GLOVE. INFLATION @ MW-3 THE MOST, INFLATED 2 FULL FINGERS.

110 O2 IN MW-2 FOR 60 MIN. @ 30 PSI. O2 MIGRATION TO MW-3 SLOWED AND IS THE LAST OF THE 3 IN. 02 GLOVES. GLOVE INFLATION @ MW-3 NEGLIGIBLE.

POST DO DDG @ JUST MW-3 AS PER REQUESTED.

1000 DPT SITE

1/12/05

0800 ARRIVED ON SITE ON 7TH AND GENE IN 711 AND SAFETY AS ABOVE LISTED.

PRE GR D0 = 10.68 ATG = 10.47. POST GR D0 = 9.89 ATG = 9.80

TRAFFIC VERY PROACTIVE FOR WELL MONITORING, USE TRUCK AS BARRACADE TAKE POST DO DDG @ (MW)-1, 2, 3, 4. * MW-3 DO DROPPED THE NEXT DAY LIKE IT IS GOT CARRIED AWAY BY UNDERGROUND WTR FLOW?

1000 DPT SITE

JOB NAME:	7-Eleven Store #20244	JOB NUMBER:	77EL.20244.05.1006
SITE ADDRESS:	3625 MacDonald Ave.	START DATE:	1/1/05 + 1/m/05
PREPARED FOR:	<i>DP</i>	DATE PREPARED:	1/7/05
		PREPARED BY:	Tom Miller

WORK REQUEST FORM

WELL I.D.	DTB ft bgs	WELL DIAM.	DTW ft TOC	D.O. Before Injection	D.O. After Injection	COMMENTS	
				(mg/L)	Time	(mg/L)	Time
MW-1	25.0	2"	9.10	2.40	0900	3.80	1245
MW-2	25.0	2"	8.70	2.70	0910	3.70	1255
MW-3	25.0	2"	9.20	2.50	0920	7.00	1235
MW-4	25.0	2"	12.60	3.60	0815	—	—
MW-5	25.0	2"	10.20	2.40	0840	—	—
I-1	27.0	3/4"					
I-2	27.0	3/4"					
I-3	27.0	3/4"					

~~DO NOT TIP IN NEW SOLUTION ALSO.~~

$$\text{Pre calc DO} = 10.53 \quad / \quad 9.70 \quad / \quad 10.68 \quad / \quad 9.89 \\ \Delta G = 10.50 \quad / \quad 9.61 \quad / \quad 10.47 \quad / \quad 9.80$$

I-1 slow PFG to MW-3

I-3 AIR LKS OUT IN THE WHD CEMENT / WALKER FLOOR

I-2 EASIER PFG TO MW-3

I-2 slowest PFG to MW-3

JOB NAME: 7-Eleven Store #20244
SITE ADDRESS: 3625 MacDonald Ave.
Richmond, CA
PREPARED FOR: JDR

JOB NUMBER:
START DATE:
DATE PREPARED:
PREPARED BY:

77EL-20244.05.1006
1/16/5
1/7/2005

Tom Miller

Oxygen Injection Monitoring Summary

Injection Well	Initial Level	Finished Level	Elapsed Time (min)	O ₂ Injection		O ₂ Concentration Monitoring Rate (ppm/min)	Pre-injection Reading Addose Time	NOTES
				Injection Pressure (psi)	Injection Volume (cm ³)			
I-1	0930	1030	60	30	150	2.5	MW-1 MW-2 MW-3	19.2 19.0 19.7 0900 0910 0920 Pre-injection Readings
I-2	1130	1230	60	30	150	2.5	MW-1 MW-2 MW-3	18.8 18.8 18.8 0945 1045 1045 Pre-injection Readings
I-3	1030	1135	45	30-25	150	3.3	MW-1 MW-2 MW-2 MW-3 MW-3 MW-3	19.0 18.5 17.3 19.1 18.5 19.0 0910 0955 1055 0920 1015 1105 1165 Pre-injection Readings

JOB NAME:	7-Eleven Store #20244	JOB NUMBER:	77EL.20244.04.0603
SITE ADDRESS:	3625 MacDonald Avenue	START DATE:	12/14/2004
	Richmond, CA	DATE PREPARED:	12/13/2004
PREPARED FOR:		PREPARED BY:	Danielle Catlin-Wright

SITE VISITATION REPORT

Name(s) Danielle CATLIN-WRIGHT Date: 12.14.04 Did you call in? Yes No

Arrival Time: 7:45 Departure Time: _____ Who did you call? Daniel Davis

Weather Notations: SUN CLOUDY RAIN SNOW Temperature 50 F

DRUM INVENTORY (No GAS @ this location)

Purged GW		CARBON	TOTAL OPEN TOP	
WATER	SOIL	EMPTY	TOTAL BUNG TOP	
<u>1</u>				<u>\$7</u>
<u>THU 11</u>				

HEALTH AND SAFETY ASSESSMENT

Site has no gasoline (removed) & is located in a low income mixed use (Commercial/Residential) neighborhood. Bus Stop on MACDONALD - Must have exclusion zone

DESCRIPTION OF ACTIVITIES ONSITE AND NOTES

Arrive onsite @ 7:45AM, Gregg drilling already onsite (start time set for 8AM) Greet Don & Lu & discuss set up & objective. Measure NW-1 → 12.15' DTW Set up on I-3 & close off approach. Set up exclusion zone. 8:20 H/S meeting. Call County to confirm Grout inspection for this afternoon. leave message for Michael S. HAND Anger I-3 & begin drilling @ 8:58, collect last soil sample I-3-25' @ 10:10AM. Call Daniel Davis, discuss lithology & proceed drilling to 27' where the ~~fracture~~ injection well was to be constructed.

10:30 Call Michael S. w/County & leave a second message.

11:25- Am connected w/ Michael S.' supervisor.

Michael is out sick & the County is short staffed.

No grout inspector will be present today to witness the grouting of I-3. We (SECOR/Gregg) have approval to grout w/out the county to witness construct I-3.

Move to I-2 & begin hand coring. Clean up & pull supplies from support truck.

JOB NAME:	7-Eleven Store #20244	JOB NUMBER:	77EL.20244.04.0603
SITE ADDRESS:	3625 MacDonald Avenue	START DATE:	12/14/2004
	Richmond, CA	DATE PREPARED:	12/13/2004
PREPARED FOR:	DEC	PREPARED BY:	Danielle Catlin-Wright

DESCRIPTION OF ACTIVITIES ON SITE AND NOTES (cont)

Field Work Conducted By: DEC

Date: 12.14.04

Grab short lunch, followed by looking for a public Restroom.

→ Note: For future site work BRING a Port-o-Potty.

7-11, Churches Chicken & Citibank Do Not have a public restroom.

- HANAuger I-2 location Begin drilling w/ soil samples every 5'.

- Collect 1st soil sample @ 1:20 pm @ (I-2) 10' bgs.

Discuss lithology & well constructions w/ Daniel Davis (D.D.)

Drill to 25' bgs & decide to proceed to 27' as per discussion w/ D.D. & similar lithology.

Construct I-2 identical to I-3. (@ w/ TD = 27'

0.75 Blank casing, (1) 26" Diffused gas Technology ceramic-steel

diffuser tip. SAND from 27 → 24' bgs, Bentonite from 24' - 23'.

Well completed by 3:20 pm Begin set up to Grout

Decide Mix & grout ~~at~~ I-3 & I-2.

Clean up around cookie cuts, move drums & Begin repacking materials.

Told by 7-11 store personnel Not to be here after dark.

- Note: Only two overhead lights on property - neither ~~set~~ placed so we may drill & complete I-1.

- Contact Gregg Drilling > Jaff Auchterlonie @ the office.

- To Return wed. 12.15.04 in the AM (7:30) to drill & complete the final O₂ well.

- Set well Boxes.

1)

JOB NAME:	7-Eleven Store #20244	JOB NUMBER:	77EL.20244.04.0603
SITE ADDRESS:	3625 MacDonald Avenue	START DATE:	12/14/2004 , Today = 12-15-04
	Richmond, CA	DATE PREPARED:	12/13/2004
PREPARED FOR:	DEC	PREPARED BY:	Danielle Catlin-Wright

Arrive onsite 7:20AM

Purchase ice & check well boxes from yesterday. Not damaged!
Concrete around I-3 & I-2 ^{is at} ~~not~~ dry yet.

- Begin setting up exclusion zone.

7:50 - Don & Trevor (Gregg Drilling) arrive $7:45 \rightarrow 8:10\text{ AM}$
Set up DN I-1.

Call Contra Costa County & est. Noon Grout. Michael to call if we can not make the appt.

HAND AUGER to 5' → Begin drilling @ 8:50AM

- collect soil samples every 5' (beginning at 10' → to → 25')
continuous lithology from 10 → 25'

Collected last soil sample @ 9:50

Called Michael ^{left message} again to say we'd need an earlier grout.

Build I-1 (SAND to 24, Bent. to 25'), (wait to hear from County)

- Receive call from Michael that he will not be able to make our grout inspection > we may proceed w/out him.

- Grout I-1.

- Set well Box, clean up site, add some grout to I-3.

- Reload trucks

- Finalize Paperwork

- leave site @ 12:30

ATTACHMENT D

BORING AND WELL CONSTRUCTION LOGS

Well Installation and Oxygen Injection Feasibility Test Report

7-Eleven Store #20244

3625 MacDonald Avenue

Richmond, California 94805-2114

SECOR Project No.: 77EL.20244.05.0502

SECOR

International Incorporated

Logged By: D.C.	Date Drilled: 12/15/04	Drilling Contractor: Gregg Drilling	Project Name: 7-11 #20244 Well Install Richmond, California	Method/Equipment: Hollow Stem Auger Split Spoon	Well Number: I-1			
See "Legend to Logs" for sampling method, classifications and laboratory testing methods		Boring Diam.(in.): 8	Surface Elev.(ft.): -	Groundwater Depth (ft.): 18' First Water	Total Depth (ft.): 27.0	Drive wt.(lbs.): 140	Drop Dist.(in.): 30	
Well Construction	Depth, (ft.)	Sample Type	Description			PID/FID (ppm)	Sample Name	Time
12" Diameter Traffic Rated Well Box	0		Asphalt at grade. 4" thick					
Grout	5		Clay (CL): Brown (10YR 4/3), low plasticity, high toughness, damp, very stiff, no HC odor (0,5,15,80)			0.0		
3/4" Schedule 80 PVC	10		Sandy Silt (ML): Olive Brown (2.5YR 4/3), fine grain sand, highly plastic, low toughness, damp, firm, no HC odor (0,30,70,0) Clay (CL): Olive Brown (2.5Y 4/4), low plasticity, high toughness, damp, very stiff			1.1	I-1-10'	0905
	15		Sandy Silt (ML): Yellowish Brown (10YR 5/4), fine grain sand, highly plastic, low toughness, moist, firm, no HC (0,30,70,0)				I-1-15'	0915
	20		Silt with Sand (ML): Yellowish Brown (10YR 5/4), fine grain sand, highly plastic, low toughness, wet, soft, no HC odor (0,25,75,0)			20.0	I-1-20'	0930
Bentonite			Silty Sand (SM): Dark Yellow Brown (10YR 4/4), fine grain, poorly graded, rounded, low plasticity, wet, medium density, no cement, no HC odor (0,60,40,0)					
			Silt (ML): Brown (10YR 4/3), fine grain sand, highly plastic, low					
The substrata descriptions above are generalized representations and based upon visual/manual classification of cuttings and/or samples obtained during drilling. Predominant material types shown on the log may contain different materials and the change from one predominant material type to another could be different than indicated. Descriptions on this log apply only at the specific location at the time of drilling and may not be representative of subsurface conditions at other locations or times.								

Project No. 77EL.20244.05.0603 Date 12/15/04

Log of Well

MW8-10D.GPJ
LOG OF BOREHOLE

Figure

(sheet 1 of 2)

SECOR

International Incorporated

Logged By: D.C.	Date Drilled: 12/15/04	Drilling Contractor: Gregg Drilling	Project Name: 7-11 #20244 Well Install Richmond, California	Method/Equipment: Hollow Stem Auger Split Spoon	Well Number: I-1			
See "Legend to Logs" for sampling method, classifications and laboratory testing methods		Boring Diam.(in.): 8	Surface Elev.(ft.): Groundwater Depth (ft.): 18' First Water	Total Depth (ft.): 27.0	Drive wt.(lbs.): 140	Drop Dist.(in.): 30		
Well Construction	Depth, (ft.)	Sample Type	Description			PID/FID (ppm)	Sample Name	Time
#3 Sand 2.5 Foot Diffuser Tip			toughness, wet, firm, no HC odor, (0,10,90,0) Silty Sand (SM): Dark Yellow Brown (10YR 4/4), fine grain, poorly graded, rounded, low plasticity, wet, medium density, no cement, no HC odor (0,60,40,0) Silty Sand (SM): Brown (7.5 YR 4/3), fine grain, poorly graded, rounded, low plasticity, wet, medium density, no cement, no HC odor, (0,80,20,0) Silty Sand (SM): Dark Yellowish Brown (10YR 4/4), fine grain, poorly graded, rounded, low plasticity, wet, medium density, no cementation, no HC odor, (0,60,40,0) Silt (ML): Yellowish Brown (10YR 5/4), fine grain sand, highly plastic, low toughness, wet, soft, no HC odor, (0,20,80,0)			1.5	I-1-25'	0950
	30							
	35							
	40							
	45							

The substrata descriptions above are generalized representations and based upon visual/manual classification of cuttings and/or samples obtained during drilling. Predominant material types shown on the log may contain different materials and the change from one predominant material type to another could be different than indicated. Descriptions on this log apply only at the specific location at the time of drilling and may not be representative of subsurface conditions at other locations or times.

Project No. 77EL.20244.05.0603 Date 12/15/04

Log of Well

MW8-10D.GPJ
LOG OF BOREHOLE

Figure

(sheet 2 of 2)

SECOR

International Incorporated

Logged By:	Date Drilled:	Drilling Contractor	Project Name:	Method/Equipment:	Well Number:
D.C.	12/14/04	Gregg Drilling	7-11 #20244 Well Install Richmond, California	Hollow Stem Auger Split Spoon	I-2
See "Legend to Logs" for sampling method, classifications and laboratory testing methods	Boring Diam.(in.): 8	Surface Elev.(ft.):	Groundwater Depth (ft.): 17' First Water 12.13' Static Water	Total Depth (ft.): 27.0	Drive wt.(lbs.): 140
					Drop Dist.(in.): 30
Well Construction	Depth, (ft.)	Sample Type	Description	PID/FID (ppm)	Sample Name
12" Diameter Traffic Rated Well Box			Asphalt at grade. 4" thick		
Grout	5		Clay (CL): Mottled Brown (10YR 4/3) and Dark Grey (10YR 4/1), fine grain, low plasticity, high toughness, damp, very stiff, no HC odor (0,5,15,80)	0.0	
3/4" Schedule 80 PVC	10		Clay (CL): Mottled Brown (10YR 4/3) and Dark Grey (10YR 4/1), fine grain, low plasticity, high toughness, damp, very stiff, no HC odor (0,10,15,75)	13	I-2-10'
	15		Clay (CL): Mottled Brown (10YR 3/2) and Dark Grey (10YR 4/1), fine grain, low plasticity, high toughness, damp, very stiff, no HC odor (0,10,15,75) Silty Sand (SM): Very Dark Grayish Brown, fine to coarse grain sand, well graded, rounded, high plasticity, moist, medium dense, no cement, no HC odor, (10,60,30,0)	98	I-2-15'
Bentonite	20		Sandy Silt (ML): Olive Brown (2.5Y 4/3) fine grain sand, highly plastic, medium toughness, moist, firm, slight HC odor (0,30,70,0)	5.9	I-2-20'
			Silt with Sand (ML): Yellowish Brown (10YR 5/4) fine grain sand, highly plastic, low toughness, saturated, soft, no HC odor (0,25,75,0)		1335
			Clay with Sand (CL): Yellowish Brown (10YR 5/4) fine grain sand, low plasticity, high toughness, wet, stiff, no HC odor	2.5	I-2-25'
					1345
The substrata descriptions above are generalized representations and based upon visual/manual classification of cuttings and/or samples obtained during drilling. Predominant material types shown on the log may contain different materials and the change from one predominant material type to another could be different than indicated. Descriptions on this log apply only at the specific location at the time of drilling and may not be representative of subsurface conditions at other locations or times.					

Project No. 77EL.20244.05.0603 Date 12/15/04

Log of Well

MW8-10D.GPJ
LOG OF BOREHOLE

Figure

(sheet 1 of 2)

SECOR

International Incorporated

Logged By: Date Drilled:		Drilling Contractor		Project Name: 7-11 #20244 Well Install Richmond, California		Method/Equipment: Hollow Stem Auger Split Spoon		Well Number: I-2	
D.C.	12/14/04	Gregg Drilling							
See "Legend to Logs" for sampling method, classifications and laboratory testing methods		Boring Diam.(in.):	Surface Elev.(ft.):	Groundwater Depth (ft.): 17' First Water 12.13' Static Water		Total Depth (ft.):	Drive wt.(lbs.):	Drop Dist.(in.):	
		8				27.0	140	30	
Well Construction		Depth, (ft.)	Sample Type	Description				PID/FID (ppm)	Sample Name
 #3 Sand 2.5 Foot Diffuser Tip				<p>(0,20,0,80) Silty Sand (SM): Dark Yellowish Brown (10YR 4/4) fine grain, poorly graded, rounded, wet, medium dense, no cement, no HC odor (0,60,40,0)</p>					
		30							
		35							
		40							
		45							

The substrata descriptions above are generalized representations and based upon visual/manual classification of cuttings and/or samples obtained during drilling. Predominant material types shown on the log may contain different materials and the change from one predominant material type to another could be different than indicated. Descriptions on this log apply only at the specific location at the time of drilling and may not be representative of subsurface conditions at other locations or times.

Project No. 77EL.20244.05.0603 Date 12/15/04

Log of Well

MW8-10D.GPJ
LOG OF BOREHOLE

Figure

(sheet 2 of 2)

SECOR

International Incorporated

Logged By: D.C.	Date Drilled: 12/14/04	Drilling Contractor: Gregg Drilling	Project Name: 7-11 #20244 Well Install Richmond, California	Method/Equipment: Hollow Stem Auger Split Spoon	Well Number: I-3				
See "Legend to Logs" for sampling method, classifications and laboratory testing methods		Boring Diam.(in.): 8	Surface Elev.(ft.):	Groundwater Depth (ft.): 17' First Water 17.92' Static Water	Total Depth (ft.): 27.0	Drive wt.(lbs.): 140	Drop Dist.(in.): 30		
Well Construction	Depth, (ft.)	Sample Type	Description				PID/FID (ppm)	Sample Name	Time
12" Diameter Traffic Rated Well Box			Asphalt at grade. 4" thick						
Grout	5		Clay (CL): Mottled Brown (10YR 4/3) and Dark Grey (10YR 4/1), low plasticity, high toughness, damp, very stiff, no HC odor (0,5,15,80)				0.0		
3/4" Schedule 80 PVC	10		Clay (CL): Mottled Brown (10YR 4/3) and Dark Grey (10YR 4/1), low plasticity, high toughness, damp, very stiff, no HC odor (0,10,15,75)				5.4	I-3-10'	0915
	15		Silt with Sand (ML): Olive Brown (2.5 Y 4/3) fine grain sand, highly plastic, low toughness, moist, firm, no HC odor (0,25,55,20)				128	I-3-15'	0930
	20		Clay with Sand (CL): Olive Brown (2.5 Y 4/4) low plasticity, high toughness, damp, very stiff, slight HC odor (10,15,0,75)				2.2	I-3-20'	0950
Bentonite			Sandy Silt with Gravel (ML): Olive Brown (2.5Y 4/3) fine grain sand, highly plastic, medium toughness, moist, firm, slight HC odor (20,20,60,0)						
			Sandy Silt (ML): Yellowish Brown (10YR 5/4) fine grain sand, highly plastic, medium toughness, moist, firm, slight HC odor (0,30,70,0)						
			Silt with Sand (ML): Yellowish Brown (10YR 5/4) fine grain sand, highly plastic, low toughness, saturated, soft, no HC odor (0,25,75,0)						
			Clay with Sand (CL): Yellowish Brown (10YR 5/4) fine grain sand, low plasticity, high toughness, wet, stiff, no HC odor (0,25,75,0)						
			Silty Sand (SM): Dark Yellowish Brown (10YR 4/4) fine grain, poorly graded, rounded, wet, medium density, no cementation, no HC odor (0,60,40,0)						

The substrata descriptions above are generalized representations and based upon visual/manual classification of cuttings and/or samples obtained during drilling. Predominant material types shown on the log may contain different materials and the change from one predominant material type to another could be different than indicated. Descriptions on this log apply only at the specific location at the time of drilling and may not be representative of subsurface conditions at other locations or times.

Project No. 77EL.20244.05.0603 Date 12/15/04

Log of Well

MW8-I0D.GPJ
LOG OF BOREHOLE

Figure

(sheet 1 of 2)

SECOR

International Incorporated

Logged By:		Date Drilled:	Drilling Contractor		Project Name:		Method/Equipment:		Well Number:		
D.C.		12/14/04	Gregg Drilling		7-11 #20244 Well Install Richmond, California		Hollow Stem Auger Split Spoon		I-3		
See "Legend to Logs" for sampling method, classifications and laboratory testing methods		Boring Diam.(in.):	8	Surface Elev.(ft.):		Groundwater Depth (ft.):		Total Depth (ft.):	Drive wt.(lbs.):	Drop Dist.(in.):	
						✗ 17 ' First Water		27.0	140	30	
						✗ 17.92 ' Static Water					
Well Construction		Depth, (ft.)	Sample Type	Description					PID/FID (ppm)	Sample Name	Time
#3 Sand 2.5 Foot DiffuserTip				Silt with Sand (ML): Yellowish Brown (10YR 5/4) fine grain sand, highly plastic, low toughness, wet, firm, no HC odor (0,20,80,0)					1.7	I-3-25'	1010
		30									
		35									
		40									
		45									

The substrata descriptions above are generalized representations and based upon visual/manual classification of cuttings and/or samples obtained during drilling. Predominant material types shown on the log may contain different materials and the change from one predominant material type to another could be different than indicated. Descriptions on this log apply only at the specific location at the time of drilling and may not be representative of subsurface conditions at other locations or times.

Project No. 77EL.20244.05.0603 Date 12/15/04

Log of Well

MW8-10D.GPJ
LOG OF BOREHOLE

Figure

(sheet 2 of 2)

**ATTACHMENT E
CERTIFIED LABORATORY ANALYTICAL REPORTS
AND CHAIN OF CUSTODY DOCUMENTATION**

Well Installation and Oxygen Injection Feasibility Test Report
7-Eleven Store #20244
3625 MacDonald Avenue
Richmond, California 94805-2114
SECOR Project No.: 77EL.20244.05.0502



Report Number : 41529

Date : 12/21/2004

Danielle Catlin-Wright
SECOR International, Inc.
3017 Kilgore Road, Suite 100
Rancho Cordova, CA 95670

Subject : 8 Soil Samples
Project Name : 7-Eleven Store #20244
Project Number : 77EL.20244.04

Dear Ms. Catlin-Wright,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

A handwritten signature in black ink, appearing to read "Joel Kiff".

Joel Kiff



Report Number : 41529

Date : 12/21/2004

Project Name : 7-Eleven Store #20244

Project Number : 77EL.20244.04

Sample : I-3-15

Matrix : Soil

Lab Number : 41529-02

Sample Date : 12/14/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	1.8	0.25	mg/Kg	EPA 8260B	12/19/2004
Toluene	0.88	0.25	mg/Kg	EPA 8260B	12/19/2004
Ethylbenzene	36	0.25	mg/Kg	EPA 8260B	12/19/2004
Total Xylenes	85	0.25	mg/Kg	EPA 8260B	12/19/2004
Methyl-t-butyl ether (MTBE)	6.6	0.25	mg/Kg	EPA 8260B	12/19/2004
TPH as Gasoline	1400	25	mg/Kg	EPA 8260B	12/21/2004
Toluene - d8 (Surr)	105		% Recovery	EPA 8260B	12/19/2004
4-Bromofluorobenzene (Sum)	96.8		% Recovery	EPA 8260B	12/19/2004

Sample : I-3-20'

Matrix : Soil

Lab Number : 41529-03

Sample Date : 12/14/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/19/2004
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/19/2004
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/19/2004
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/19/2004
Methyl-t-butyl ether (MTBE)	1.3	0.0050	mg/Kg	EPA 8260B	12/19/2004
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	12/19/2004
Toluene - d8 (Surr)	107		% Recovery	EPA 8260B	12/19/2004
4-Bromofluorobenzene (Sum)	88.4		% Recovery	EPA 8260B	12/19/2004

Approved By:

Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800



Report Number : 41529

Date : 12/21/2004

Project Name : 7-Eleven Store #20244

Project Number : 77EL.20244.04

Sample : I-3-25'

Matrix : Soil

Lab Number : 41529-04

Sample Date : 12/14/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/18/2004
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/18/2004
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/18/2004
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/18/2004
Methyl-t-butyl ether (MTBE)	0.43	0.0050	mg/Kg	EPA 8260B	12/18/2004
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	12/18/2004
Toluene - d8 (Surrogate)	96.0		% Recovery	EPA 8260B	12/18/2004
4-Bromofluorobenzene (Sum)	91.3		% Recovery	EPA 8260B	12/18/2004

Sample : I-2-15'

Matrix : Soil

Lab Number : 41529-06

Sample Date : 12/14/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	0.22	0.025	mg/Kg	EPA 8260B	12/18/2004
Toluene	< 0.025	0.025	mg/Kg	EPA 8260B	12/18/2004
Ethylbenzene	3.1	0.025	mg/Kg	EPA 8260B	12/18/2004
Total Xylenes	0.46	0.025	mg/Kg	EPA 8260B	12/18/2004
Methyl-t-butyl ether (MTBE)	3.5	0.025	mg/Kg	EPA 8260B	12/18/2004
TPH as Gasoline	110	5.0	mg/Kg	EPA 8260B	12/18/2004
Toluene - d8 (Surrogate)	101		% Recovery	EPA 8260B	12/18/2004
4-Bromofluorobenzene (Surrogate)	102		% Recovery	EPA 8260B	12/18/2004

Approved By:

Joe Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800



Report Number : 41529

Date : 12/21/2004

Project Name : 7-Eleven Store #20244

Project Number : 77EL.20244.04

Sample : I-2-20'

Matrix : Soil

Lab Number : 41529-07

Sample Date : 12/14/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/19/2004
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/19/2004
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/19/2004
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/19/2004
Methyl-t-butyl ether (MTBE)	1.5	0.0050	mg/Kg	EPA 8260B	12/19/2004
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	12/19/2004
Toluene - d8 (Sum)	106		% Recovery	EPA 8260B	12/19/2004
4-Bromofluorobenzene (Sum)	89.3		% Recovery	EPA 8260B	12/19/2004

Sample : I-1-15'

Matrix : Soil

Lab Number : 41529-10

Sample Date : 12/15/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/21/2004
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/21/2004
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/21/2004
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/21/2004
Methyl-t-butyl ether (MTBE)	0.16	0.0050	mg/Kg	EPA 8260B	12/21/2004
TPH as Gasoline	1.3	1.0	mg/Kg	EPA 8260B	12/21/2004
Toluene - d8 (Sum)	111		% Recovery	EPA 8260B	12/21/2004
4-Bromofluorobenzene (Sum)	92.3		% Recovery	EPA 8260B	12/21/2004

Approved By:

Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800



Report Number : 41529

Date : 12/21/2004

Project Name : 7-Eleven Store #20244

Project Number : 77EL.20244.04

Sample : I-1-20'

Matrix : Soil

Lab Number : 41529-11

Sample Date : 12/15/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/18/2004
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/18/2004
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/18/2004
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/18/2004
Methyl-t-butyl ether (MTBE)	0.30	0.0050	mg/Kg	EPA 8260B	12/18/2004
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	12/18/2004
Toluene - d8 (Surr)	95.6		% Recovery	EPA 8260B	12/18/2004
4-Bromofluorobenzene (Surr)	90.7		% Recovery	EPA 8260B	12/18/2004

Sample : I-1-25'

Matrix : Soil

Lab Number : 41529-12

Sample Date : 12/15/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/17/2004
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/17/2004
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/17/2004
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/17/2004
Methyl-t-butyl ether (MTBE)	0.50	0.0050	mg/Kg	EPA 8260B	12/17/2004
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	12/17/2004
Toluene - d8 (Surr)	98.0		% Recovery	EPA 8260B	12/17/2004
4-Bromofluorobenzene (Surr)	89.9		% Recovery	EPA 8260B	12/17/2004

Approved By:

Joe Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

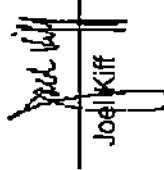
QC Report : Method Blank Data

Project Name : 7-Eleven Store #20244

Project Number : 77EL.20244.04

Report Number : 41529
 Date : 12/21/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed	Parameter	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/kg	EPA 8260B	12/17/2004					
Toluene	< 0.0050	0.0050	mg/kg	EPA 8260B	12/17/2004					
Ethylbenzene	< 0.0050	0.0050	mg/kg	EPA 8260B	12/17/2004					
Total Xylenes	< 0.0050	0.0050	mg/kg	EPA 8260B	12/17/2004					
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/kg	EPA 8260B	12/17/2004					
TPH as Gasoline	< 1.0	1.0	mg/kg	EPA 8260B	12/17/2004					
Toluene - dB (Surf)	103	%		EPA 8260B	12/17/2004					
4-Bromofluorobenzene (Surf)	103	%		EPA 8260B	12/17/2004					
Benzene	< 0.0050	0.0050	mg/kg	EPA 8260B	12/18/2004					
Toluene	< 0.0050	0.0050	mg/kg	EPA 8260B	12/18/2004					
Ethylbenzene	< 0.0050	0.0050	mg/kg	EPA 8260B	12/18/2004					
Total Xylenes	< 0.0050	0.0050	mg/kg	EPA 8260B	12/18/2004					
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/kg	EPA 8260B	12/18/2004					
TPH as Gasoline	< 1.0	1.0	mg/kg	EPA 8260B	12/18/2004					
Toluene - dB (Surf)	99.5	%		EPA 8260B	12/18/2004					
4-Bromofluorobenzene (Surf)	101	%		EPA 8260B	12/18/2004					
Benzene	< 0.0050	0.0050	mg/kg	EPA 8260B	12/20/2004					
Toluene	< 0.0050	0.0050	mg/kg	EPA 8260B	12/20/2004					
Ethylbenzene	< 0.0050	0.0050	mg/kg	EPA 8260B	12/20/2004					
Total Xylenes	< 0.0050	0.0050	mg/kg	EPA 8260B	12/20/2004					
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/kg	EPA 8260B	12/20/2004					
TPH as Gasoline	< 1.0	1.0	mg/kg	EPA 8260B	12/20/2004					
Toluene - dB (Surf)	104	%		EPA 8260B	12/20/2004					
4-Bromofluorobenzene (Surf)	106	%		EPA 8260B	12/20/2004					



Joe Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

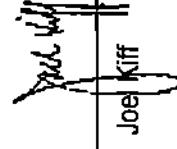
Report Number : 41529

Date : 12/21/2004

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : 7-Eleven Store #20244
Project Number : 77EL.20244.04

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Spiked Sample Percent Recov.	Relative Percent Diff.	Relative Percent Diff.	Relative Percent Diff.
Benzene	41527-02	<0.0050	0.0391	0.0382	0.0332	0.0325	EPA 8260B	12/17/04	84.9	85.0	0.133	70-130	25			
Toluene	41527-02	<0.0050	0.0391	0.0382	0.0345	0.0329	EPA 8260B	12/17/04	88.1	86.0	2.33	70-130	25			
Tert-Butanol	41527-02	<0.0050	0.196	0.191	0.165	0.160	EPA 8260B	12/17/04	84.4	83.7	0.867	70-130	25			
Methyl-t-Butyl Ether	41527-02	<0.0050	0.0391	0.0382	0.0340	0.0327	EPA 8260B	12/17/04	86.8	85.4	1.54	70-130	25			
Benzene	41483-13	<0.0050	0.0382	0.0385	0.0322	0.0350	EPA 8260B	12/18/04	84.3	90.8	7.34	70-130	25			
Toluene	41483-13	<0.0050	0.0382	0.0385	0.0321	0.0348	EPA 8260B	12/18/04	83.8	90.3	7.44	70-130	25			
Tert-Butanol	41483-13	<0.0050	0.191	0.193	0.141	0.158	EPA 8260B	12/18/04	73.7	82.1	10.9	70-130	25			
Methyl-t-Butyl Ether	41483-13	<0.0050	0.0382	0.0385	0.0290	0.0320	EPA 8260B	12/18/04	75.9	83.0	9.00	70-130	25			
Benzene	41527-12	<0.0050	0.0386	0.0378	0.0369	0.0364	EPA 8260B	12/20/04	95.7	96.3	0.657	70-130	25			
Toluene	41527-12	<0.0050	0.0386	0.0378	0.0385	0.0376	EPA 8260B	12/20/04	99.6	99.4	0.191	70-130	25			
Tert-Butanol	41527-12	<0.0050	0.193	0.189	0.180	0.179	EPA 8260B	12/20/04	93.3	94.5	1.26	70-130	25			
Methyl-t-Butyl Ether	41527-12	<0.0050	0.0386	0.0378	0.0364	0.0366	EPA 8260B	12/20/04	94.4	96.8	2.55	70-130	25			


Approved By: Joe Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 41529
Date : 12/21/2004

QC Report : Laboratory Control Sample (LCS)

Project Name : 7-Eleven Store #20244
Project Number : 77EL.20244.04

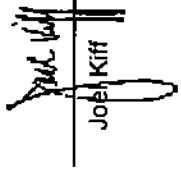
Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov.
Benzene	0.0369	mg/Kg	EPA 8260B	12/17/04	97.8	70-130
Toluene	0.0369	mg/Kg	EPA 8260B	12/17/04	104	70-130
Tert-Butanol	0.184	mg/Kg	EPA 8260B	12/17/04	98.8	70-130
Methyl-t-Butyl Ether	0.0369	mg/Kg	EPA 8260B	12/17/04	101	70-130
Benzene	0.0397	mg/Kg	EPA 8260B	12/18/04	89.7	70-130
Toluene	0.0397	mg/Kg	EPA 8260B	12/18/04	88.7	70-130
Tert-Butanol	0.198	mg/Kg	EPA 8260B	12/18/04	80.6	70-130
Methyl-t-Butyl Ether	0.0397	mg/Kg	EPA 8260B	12/18/04	82.2	70-130
Benzene	0.0364	mg/Kg	EPA 8260B	12/20/04	93.2	70-130
Toluene	0.0364	mg/Kg	EPA 8260B	12/20/04	98.4	70-130
Tert-Butanol	0.182	mg/Kg	EPA 8260B	12/20/04	93.2	70-130
Methyl-t-Butyl Ether	0.0364	mg/Kg	EPA 8260B	12/20/04	89.0	70-130

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Approved By:

Joe Kiff



Chain of Custody Number:

SECOR Chain-of Custody Record

Field Office: **077 Sacramento**
 Address: **3017 Kilgore Road, Suite 100**
Rancho Cordova, CA

Additional documents are attached, and are part of this Record.
 Job Name: **7-Eleven Store #20244**
 Location: **3625 MacDonald Avenue**
Richmond, California

Project # **77EL.20244.04**Task # **0403**Project Manager **Jaff Auchteronie**Laboratory **Kiff Analytical**Turnaround Time **Standard**Sampler's Name **Danielle Catlin-Wright**Sampler's Signature ***Danielle Catlin-Wright***

Sample ID

HCID

Date

Time

Matrix

TPH-G/TERP/ME - EPA

8280

TPHd (Dissolved Only)

8015 (modified)

TPH-A18, IMAWP-H 418.1

602B020

Aromameric Volatiles

602B020

Volatile organics

624/6240 (g-CMS)

Halogenated Volatiles

601/8010

Semivolatile Organics

625/8270 (GC/MS)

Halo-organic Volatiles

601/8010

Halo-organic Volatiles

Analysis Request

Comments/
Instructions

1	-01	Hold
2	-02	
3	-03	
4	-04	
5	-05	
6	-06	
7	-07	
8	-08	
9	-09	
10	-10	
11	-11	

Sample Receipt

Total no. of containers: _____
 Chain of custody seals: _____
 Rec'd in good condition/cold: _____
 Conforms to record: _____

Client: **SECOR**Client Contact: **D. Catlin-Wright**Client Phone: **(916) 881-0400 ext. 224**Received by ***Danielle Catlin-Wright***Sign ***[Signature]***Print ***[Signature]***Company **Kiff Analytical**Time **12/15/04 15:04**Date **12/15/04**Time **12/15/04**Date **12/15/04**Time **12/15/04**Date **12/15/04**Time **12/15/04**Date **12/15/04**Time **12/15/04**Date **12/15/04**Time **12/15/04**Date **12/15/04**Time **12/15/04**Date **12/15/04**Time **12/15/04**Relinquished by ***Danielle Catlin-Wright***Sign ***[Signature]***Print ***[Signature]***Company **Kiff Analytical**Time **12/15/04**Date **12/15/04**Time **12/15/04**



Report Number : 41528

Date : 12/21/2004

Danielle Catlin-Wright
SECOR International, Inc.
3017 Kilgore Road, Suite 100
Rancho Cordova, CA 95670

Subject : 1 Soil Sample
Project Name : 7-Eleven Store #20244
Project Number : 77EL.20244.04

Dear Ms. Catlin-Wright,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

A handwritten signature in black ink, appearing to read "Joel Kiff".

Joel Kiff



Report Number : 41528

Date : 12/21/2004

Project Name : 7-Eleven Store #20244

Project Number : 77EL.20244.04

Sample : SP1 (ABCD)

Matrix : Soil

Lab Number : 41528-01

Sample Date : 12/15/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/18/2004
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/18/2004
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/18/2004
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/18/2004
Methyl-t-butyl ether (MTBE)	0.011	0.0050	mg/Kg	EPA 8260B	12/18/2004
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	12/18/2004
Toluene - d8 (Surrogate)	103		% Recovery	EPA 8260B	12/18/2004
4-Bromofluorobenzene (Surrogate)	103		% Recovery	EPA 8260B	12/18/2004

Approved By:

Joe Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

Report Number : 415228

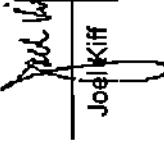
Date : 12/21/2004

QC Report : Method Blank Data

Project Name : 7-Eleven Store #20244

Project Number : 77EL.20244.04

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Melted	Date Analyzed	Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/18/2004						
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/18/2004						
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/18/2004						
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/18/2004						
Methyl-1-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/18/2004						
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	12/18/2004						
Toluene +48 (Surf)	98.4	%		EPA 8260B	12/18/2004						
4-Bromofluorobenzene (Surf)	101	%		EPA 8260B	12/18/2004						


Joe Kiff
Approved By: Joe Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

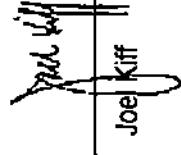
Report Number : 41528

QC Date : 12/21/2004

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : 7-Eleven Store #20244
Project Number: 77EL.20244.04

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Analysis Method	Date Analyzed	Duplicate Spiked Sample Percent Recov.	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Spiked Sample Percent Recov.	Relative Percent Diff.	Relative Percent Diff.
Benzene	41590-02	<0.0050	0.0377	0.0353	0.0350	0.0340	mg/Kg	EPA 8260B	12/18/04	92.8	96.3	3.75	70-130	25
Toluene	41590-02	<0.0050	0.0377	0.0353	0.0348	0.0337	mg/Kg	EPA 8260B	12/18/04	92.4	95.5	3.37	70-130	25
Tert-Butanol	41590-02	<0.0050	0.189	0.176	0.166	0.154	mg/Kg	EPA 8260B	12/18/04	88.2	87.4	0.858	70-130	25
Methyl-t-Butyl Ether	41590-02	<0.0050	0.0377	0.0353	0.0315	0.0310	mg/Kg	EPA 8260B	12/18/04	83.4	87.8	5.04	70-130	25



Approved By:

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 41528

Date : 12/21/2004

QC Report : Laboratory Control Sample (LCS)

Project Name : 7-Eleven Store #20244
Project Number : 77EL.20244.04

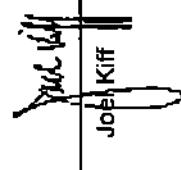
Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov.
Benzene	0.0400	mg/Kg	EPA 8260B	12/17/04	85.3	70-130
Toluene	0.0400	mg/Kg	EPA 8260B	12/17/04	84.8	70-130
Tert-Butanol	0.200	mg/Kg	EPA 8260B	12/17/04	87.9	70-130
Methyl-t-Butyl Ether	0.0400	mg/Kg	EPA 8260B	12/17/04	90.4	70-130

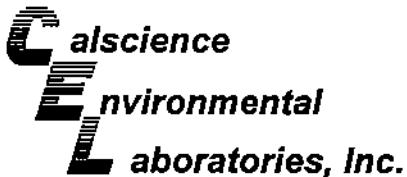
KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Approved By:

John Kiff





December 20, 2004

Joel Kiff
Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Subject: **Calscience Work Order No.: 04-12-1008**
Client Reference: **7-Eleven Store # 20244**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 12/16/2004 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The original report of any subcontracted analysis is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in black ink that reads "Stephen Nowak".

Calscience Environmental
Laboratories, Inc.
Stephen Nowak
Project Manager

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: 12/16/04
Work Order No: 04-12-1008
Preparation: EPA 3050B
Method: EPA 6010B

Project: 7-Eleven Store # 20244

Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
SP1 (ABCD)	04-12-1008-1	12/16/04	Solid	12/16/04	12/17/04	041216L01

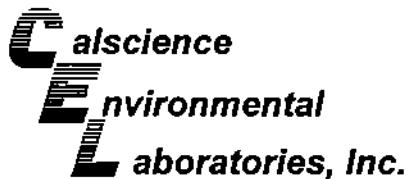
Parameter	Result	RL	DF	Qual	Units
Lead	5.06	0.50	1		mg/kg

Method Blank	097-01-002-6,004	N/A	Solid	12/16/04	12/16/04	041216L01
--------------	------------------	-----	-------	----------	----------	-----------

Parameter	Result	BL	DF	Qual	Units
Lead	ND	0.500	1		mg/kg

RL - Reporting Limit . DF - Dilution Factor . Qual - Qualifiers

7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX: (714) 894-7501



Quality Control - Spike/Spike Duplicate

ANALYSED IN ACCORDANCE
WITH CALSCIENCE
PROCEDURES

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: 12/16/04
Work Order No: 04-12-1008
Preparation: EPA 3050B
Method: EPA 6010B

Project 7-Eleven Store # 20244

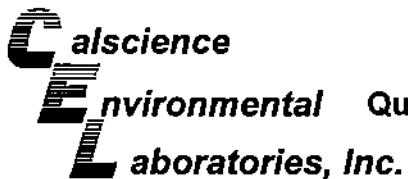
Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
04-12-1011-1	Solid	ICP 3300	12/16/04	12/16/04	041218S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	101	98	75-125	3	0.20	

RPD - Relative Percent Difference , CL - Control Limit



7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX: (714) 894-7501



Quality Control - Laboratory Control Sample

ANALYZED IN ACCORDANCE WITH
nel c

Kiff Analytical
2795 2nd Street, Suite 300
Davis, CA 95616-6593

Date Received: N/A
Work Order No: 04-12-1008
Preparation: EPA 3050B
Method: EPA 6010B

Project: 7-Eleven Store # 20244

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number	
087-01-002-6,004	Solid	ICP 3300	12/16/04	041216-I-01	041216L01	
Parameter		Conc Added	Conc Recovered	LCS % Rec	% Rec CL	Qualifiers
Lead		50.0	53.9	108	80-120	

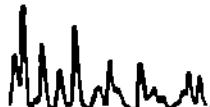
RPD - Relative Percent Difference , CL - Control Limit

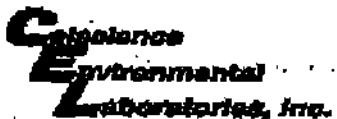


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Work Order Number: 04-12-1008

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike or Matrix Spike Duplicate compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.





WORK ORDER #: 04 - 12 - 1008

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: KIFF

DATE: 12/16/04

TEMPERATURE - SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

- Chilled, cooler with temperature blank provided.
 Chilled, cooler without temperature blank.
 Chilled and placed in cooler with wet ice.
 Ambient and placed in cooler with wet ice.
 Ambient temperature.
 °C Temperature blank.

LABORATORY (Other than Calscience Courier):

- 2.3 °C Temperature blank.
 °C IR thermometer.
 Ambient temperature.

Initial: NC

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: No (Not Intact): _____ Not Applicable (N/A): _____

Initial: NC

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples.....	<input checked="" type="checkbox"/>
Sample container label(s) consistent with custody papers.....	<input checked="" type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>
Correct containers for analyses requested.....	<input checked="" type="checkbox"/>
Proper preservation noted on sample label(s).....	<input checked="" type="checkbox"/>
VOA vial(s) free of headspace.....	<input checked="" type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input checked="" type="checkbox"/>

Initial: NC

COMMENTS:

SECOR Chain-of-Custody Record

Chain of Custody Number:

SECOR Chain-of Custody Record						
Field Office: <u>077 Sacramento</u>		<input type="checkbox"/> Additional documents are attached, and are part of this Record.				
Address: <u>3017 Kilkore Road Suite 100</u>		Job Name: <u>7-Eleven Store #20244</u>				
		Location: <u>3625 MacDonald Avenue</u>				
		Richmond, California				
4/15/28						
Analysis Request						
Project #	<u>77EL.20244.04</u>	Task #	<u>0403</u>			
Project Manager	<u>Jaff Auchtertonie</u>					
Laboratory	<u>Kiff Analytical</u>					
Turnaround Time	<u>Standard</u>					
Sampler's Name	<u>Danielle Catlin-Wright</u>					
Sampler's Signature	<u>Danielle Catlin-Wright</u>					
Sample ID	<u>SP1(ABCD)</u>	Date	<u>12/15/04</u>	Time	<u>11:30</u>	Matrix
HCID						
TPH-GBTEXM8E - EPA	<u>8280</u>					
TPH-GBTEXM8E - DIPEx	<u>8016 (modified)</u>					
Aromatic Volatiles	<u>602/8020</u>					
Volatile organic Compounds	<u>62A/B24-0 (g=GCMS)</u>					
Halogenerated Volatiles	<u>801/8010</u>					
Semi-volatile Organics	<u>625/8020 (GC/MS)</u>					
Comments/Instructions	<u>Pls. Composite 4 into 1</u>					
Number of Containers						
4						
Relinquished by:						
Sign	<u>Danielle Catlin-Wright</u>	Print	<u>Danielle Catlin-Wright</u>	Company	<u>SECOR</u>	Time
<u>12/15/04</u>						
Received by:						
Sign	<u>Richard J. Wright</u>	Print	<u>Richard J. Wright</u>	Company	<u>SECOR</u>	Time
Special Instructions/Comments						
5 Oxygenates: TAME, MTBE, ETBE, TBA, DIPE						
Global ID #T0801300710 (SIRC), FPNs:						
EDF Deliverables (email EDF to dacatlin@secor.com)						
email lab results to dacatlin@secor.com , cc: j.auchtertonie@secor.com						
Pls. Composite SP1, SP1c & SP1d into One Soil sample.						
Client: <u>SECOR</u>						
Total no. of containers: _____						
Chain of custody seals: _____						
Rec'd in good condition/cold: _____						
Conforms to record: _____						
Received by <u>Richard J. Wright</u>						
Sign	<u>Richard J. Wright</u>	Print	<u>Richard J. Wright</u>	Company	<u>Kiff Analytical</u>	Time
<u>12/15/04</u>						
Client Contact: <u>D. Catlin-Wright</u>						
Client Phone: <u>(916) 861-0400 ext. 224</u>						

אלאן עזריאלי, יג

ATTACHMENT F
WASTE DISPOSAL DOCUMENTATION
Well Installation and Oxygen Injection Feasibility Test Report
7-Eleven Store #20244
3625 MacDonald Avenue
Richmond, California 94805-2114
SECOR Project No.: 77EL.20244.05.0502

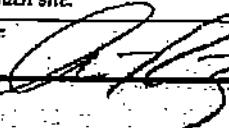
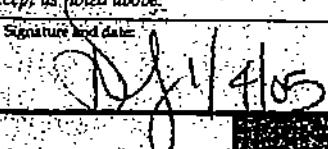
NO. 644565

NON-HAZARDOUS WASTE DATA FORM

NAME		7-Eleven, Inc.		SITE:	EPA ID. NO.	
ADDRESS		10220 SW Greenburg Suite #470 Portland, OR 97223		7-Eleven #20244		
CITY, STATE, ZIP		3625 MACDONALD AVE. RICHMOND, CA		PHONE NO. ()		
CONTAINERS: No.		VOLUME	55 gallons	WEIGHT		
TYPE:		<input checked="" type="checkbox"/> TANK TRUCK <input type="checkbox"/> DUMP TRUCK <input type="checkbox"/> DRUMS <input type="checkbox"/> CARTONS <input type="checkbox"/> OTHER	PURGED GROUNDWATER and/or DECON RINSATE			
WASTE DESCRIPTION		NON-HAZARDOUS WATER		GENERATING PROCESS	COMPONENTS OF WASTE	
COMPONENTS OF WASTE		PPM	%		PPM	%
1. WATER		99-100%		8.		
2. TPH		< 1%		6.		
3.				7.	BESI# 107761.02	
4.				6.		
PROPERTIES:		pH 7-10	<input type="checkbox"/> SOLID <input type="checkbox"/> LIQUID <input type="checkbox"/> SLUDGE <input type="checkbox"/> SLURRY <input type="checkbox"/> OTHER			
HANDLING INSTRUCTIONS:		WEAR ALL APPROPRIATE PROTECTIVE CLOTHING				
THE GENERATOR CERTIFIES THAT THE WASTE AS DESCRIBED IS 100% NON-HAZARDOUS.		LARRY MOOTHART BESI FOR GENERATOR				12/27/04
NAME		TYPED OR PRINTED FULL NAME & SIGNATURE				DATE
NAME		Steve Nieto and Sons				
ADDRESS		1281 Brea Canyon Road				
CITY, STATE, ZIP		Brea, CA 92821				SERVICE ORDER NO.
CITY, STATE, ZIP		FOOTHILL RANCH, CA 92610				PICK UP DATE
PHONE NO.		(714) 990-6855				01 - 07 - 05
TRUCK, UNIT, ID. NO.		Steve Nieto (TJ)				01 - 07 - 05
NAME		TYPED OR PRINTED FULL NAME & SIGNATURE				DATE
NAME		DeMENNO KERDOON				
ADDRESS		2000 N. ALAMEDA STREET				DISPOSAL METHOD
CITY, STATE, ZIP		COMPTON, CA 90222				<input type="checkbox"/> LANDFILL <input checked="" type="checkbox"/> OTHER
PHONE NO.		310-537-7100				RECYCLER
PAGE 20244 ID# 230912		Eric Thrash				
TYPED OR PRINTED FULL NAME & SIGNATURE						
GEN	OLD/NEW	L	A	TONS		
TRANS		S	B			
CO		RT/CD	HWDF		NONE	DISCREPANCY

TPS Technologies Soil Recycling

Non-Hazardous Soils

Date of Shipment: 1/1/2004	Responsible for Payment: BELSHIRE	Transporter Truck #: 58723	Facility #: A07	Given by TPS: 2499	Load #: 011		
Generator's Name and Billing Address: 7-ELEVEN, INC. 1220 SW GREENBURG, STE 470 PORTLAND, OR 97233 ATTN: RANDY MARTIN			Generator's Phone #:	Generator's US EPA ID No.:			
			Person to Contact:				
			FAX#:	Customer Account Number with TPS:			
Consultant's Name and Billing Address:			Consultant's Phone #:				
			Person to Contact:				
			FAX#:	Customer Account Number with TPS:			
Generation Site (Transport from): (name & address) 7-ELEVEN #20244 3625 MACDONALD AVE. RICHMOND, CA			Site Phone #:	BTEX Levels			
			Person to Contact:	TPH Levels			
			FAX#:	AVC Levels			
Designated Facility (Transport to): (name & address) TPS TECHNOLOGIES, INC. 12328 HIBISCUS AVENUE ADELANTO, CA 92301			Facility Phone #: 800-862-8001	Facility Permit Number:			
			Person to Contact: DELENA JEFFREY				
			FAX#: 760-246-8004				
Transporter Name and Mailing Address: B.E.S.I. 25971 TOWNE CENTRE DRIVE LAKE FOREST, CA 92610			Transporter's Phone #: 949-460-5200	Transporter's US EPA ID No.: CAD983584691			
			Person to Contact: LARRY MOOTHART	Transporter's DOT No.: 450647			
			FAX#: 949-460-5210	Customer Account Number with TPS: 1000153			
Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>	14m3		7820	3920	3900
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>					1.95
List any exception to items listed above: 117470							
Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.							
Print or Type Name: LARRY MOOTHART (BESI for Generator)			Generator <input type="checkbox"/> Consultant <input type="checkbox"/>	Signature and date: 	Month	Day	Year
Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.							
Print or Type Name: Art Rodriguez (ACT)			Signature and date: 		Month	Day	Year
Discrepancy: FAC# 20044 ID# 239-71							
Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above.							
Print or Type Name: D. JEFFREY / J. PROVANSAL			Signature and date: 		Month	Day	Year

TRANSPORTER COPY